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AUGUST, 1926

**CORNELL UNIVERSITY  
AGRICULTURAL EXPERIMENT STATION**

**A LIST OF THE INSECTS OF NEW YORK**

**WITH A LIST OF THE SPIDERS AND  
CERTAIN OTHER ALLIED GROUPS**

**MORTIMER DEMAREST LEONARD**

**Editor-in-Chief**

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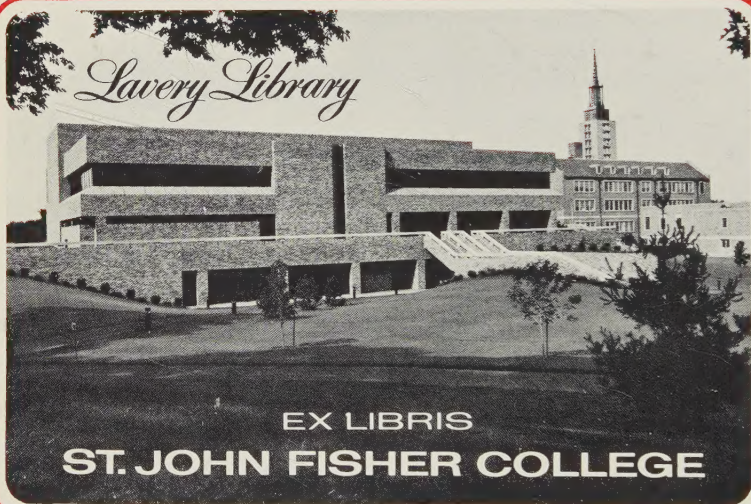
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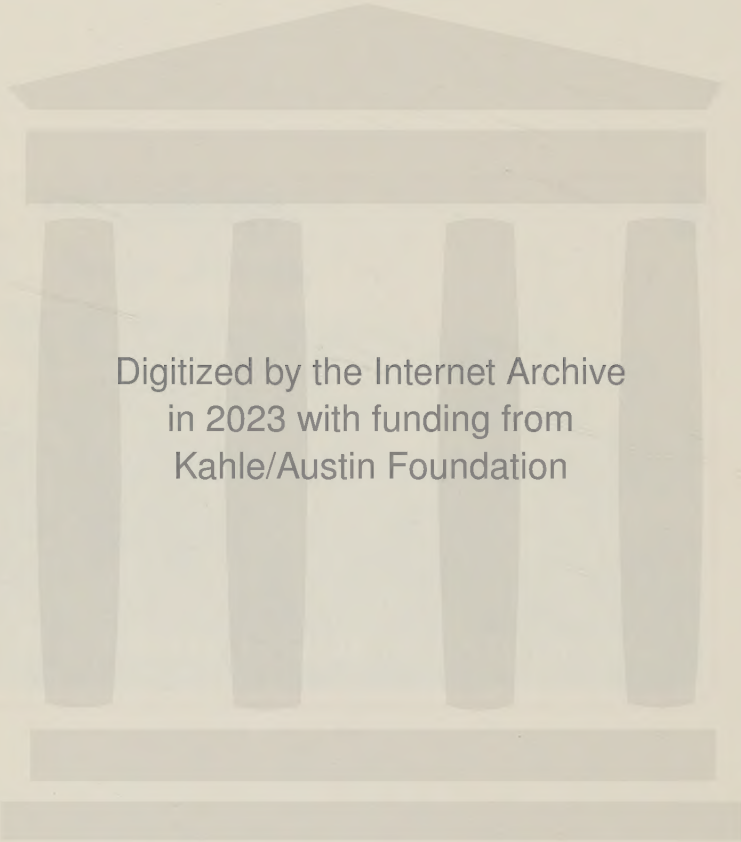


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\* The sequence of orders, and, unless otherwise indicated, of families, is that followed by Comstock in *An Introduction to Entomology*.





# A LIST OF THE INSECTS OF NEW YORK

## WITH A LIST OF THE SPIDERS AND CERTAIN OTHER ALLIED GROUPS

MORTIMER DEMAREST LEONARD<sup>1</sup>

### INTRODUCTION

New York State has for many years been a favorite collecting ground for insects, and from within its boundaries an immense number of specimens have been accumulated. For the most part, these specimens repose in the extensive collections of Cornell University at Ithaca, the New York State Museum at Albany, the American Museum of Natural History in New York City, the Brooklyn Museum, and Syracuse University. These institutions, however, by no means possess all of the material collected, for a number of persons have collected and studied insects at various points in the State for years and their private collections are rich in numbers both of species and of individual specimens. In addition there is much New York material in other States, due to exchange or removal by workers from other parts who have collected here. This material is included in the collections of museums and of specialists all over the United States and Canada.

Although New York material has either formed the basis, or been included in many pages, of monographic and revisional papers as well as of a number of local faunal lists, undoubtedly the bulk of it in collections is still to be mentioned in literature. Some of the best and most careful collecting in the State has been done by individuals who have published but little if anything.

Because of what had already been done, and as a stimulus to further collecting and study, it seemed advisable to take inventory of all those species definitely known to occur within the State and to record as far as possible the distribution of each within this area. This in brief is the scope of the present list. The date of occurrence or the seasonal range is also given, as far as it can be determined.

This "List of the Insects of New York" is the outgrowth of a project initiated about twelve years ago by a committee of a number of the leading entomological specialists, including representatives of the various institutions and societies interested. Dr. J. Chester Bradley, of Cornell University, was appointed Editor-in-Chief of the Board of Editors, and a group of subeditors was selected composed of leading specialists in the major groups. The task was a considerable one, but these workers attacked it vigorously and thousands of records were transcribed to cards from the literature and from determined specimens.

<sup>1</sup> Editor-in-Chief.

Pressure of other work later prevented Dr. Bradley from continuing in charge, and the present editor was appointed in the spring of 1923, while he was Acting State Entomologist at Albany, New York. The Board of Editors was somewhat modified, for various reasons, and in the fall of 1924 the work was transferred to Cornell University, where it was completed under special appropriations by the New York State College of Agriculture and the Heckscher Research Fund. To these funds the New York Academy of Science added \$150 and the New York Entomological Society a like amount.

It is impossible here to express thanks individually to the large number of specialists and collectors, more than one hundred and fifty in all, whose work has made it possible to gather together the data from the great mass of published records and from specimens in public and private collections. We believe we have been successful in transcribing by far the greater part of these data, and no effort has been spared to include everything. Such acknowledgment is made in the text and in the list of co-operators beginning on page 1088. Special acknowledgment should be made, however, for assistance in many ways, to the authorities and officers of Cornell University, the American Museum of Natural History, the Brooklyn Museum, the New York Academy of Science, the Staten Island Institute of Arts and Sciences, the New York State Museum, Syracuse University, the New York Entomological Society, the Brooklyn Entomological Society, the United States Bureau of Entomology, and the United States National Museum.

The editor wishes to make particular acknowledgment to Professors O. A. Johannsen and C. R. Crosby for supervision of the many details in connection with seeing this publication through the press—a task to which the editor has been unable to attend personally. The editor wishes also to acknowledge with appreciation the painstaking effort of Miss Lela G. Gross, Assistant Editor of Publications at the New York State College of Agriculture. She has been responsible for the selection of the various kinds of type and for all other matters in connection with the mechanical arrangement of the List, and in immediate charge of all corrections and additions to the proof. Final typewritten copy was made by Mrs. H. M. Fridley. Her intelligent and continued interest in what proved to be far more than merely a clerical piece of work greatly facilitated its completion.

Because of the studies made by certain specialists and the availability of records in certain other groups besides insects, there have been included lists of the following: the millipedes and centipedes, the spiders and harvestmen, the eriophyid mites, and the ticks. In all, 16,124 species and varieties are included, of which 15,449 are insects. It is difficult to determine what percentage of the total number of species this figure represents. In many parts of the State but little collecting has as yet been done and many groups are still imperfectly known. It is not unlikely, therefore,



that more intensive collecting and study should increase the present total by at least 25 per cent. It is hoped that the present list will increase both the number of collectors and the number of workers, and will stimulate further study along this line.

The name of a collector or its abbreviation is indicated by the use of italics, thus—*Ndm*; that of the person responsible for a determination or as having supplied a record is placed in parentheses, thus—(*Ndm*); italics in parentheses indicate that the same person is both collector and determiner, thus—(*Ndm*). Where the determiner is unknown the location of the material upon which the record is based is often given, and occasionally both determiner and location are indicated in parentheses; for example, (Vdyk CU), (VdykCU), or (Vdyk—CU), means determination by Van Dyke of specimens in the Cornell University collection.

The data in connection with each locality are separated by semicolons. Staten Island and Long Island localities come after a colon following **SI** and **LI** in bold-faced type.

Owing to a misunderstanding on the part of one of our editors, the species numbers which are used in the Hemiptera and the Coleoptera were omitted from the manuscript in some cases. It was thought that the slight inconvenience which might result from these omissions would not be sufficient to warrant the expense which would have been involved in making the corrections in the proof, and therefore the numbers are missing in these cases.

## FAUNAL DISTRICTS

W. T. M. FORBES

For convenience in indicating localities, the State of New York may be divided into the districts shown on the accompanying map. They are distinguished partly by climate, but more by topography and geological substrata; and they are laid out with but little reference to life zones. The Adirondack, Appalachian, and Taconic districts, the Tug Hill plateau, and the small area of the New Jersey Highlands which extends into the State, represent the higher country, the intervening districts being the plains and the broader river bottoms. The Coastal Plain is represented by Staten Island and Long Island.

The *St. Lawrence Plain* is a broad open valley so far as New York is concerned, while on the Canadian side it is continuous with the broad St. Lawrence Plain of that region. Because of the northern latitude the climate represents the Transition zone, though the altitude is only a little above sea level. Relatively little collecting has been done here, the most important localities being perhaps Waddington and Ogdensburg near the northern boundary of the State, and Clayton near the mouth of Lake Ontario.

The *Adirondack* district comprises a great plateau of from 1500 to 1800 feet elevation, cut with valleys which are as a rule too narrow to shelter

many southern forms, and rising in the eastern part into a group of mountains which reach an elevation of 5344 feet. The plateau shows in general the Canadian fauna, and is very largely still forest-covered, with many

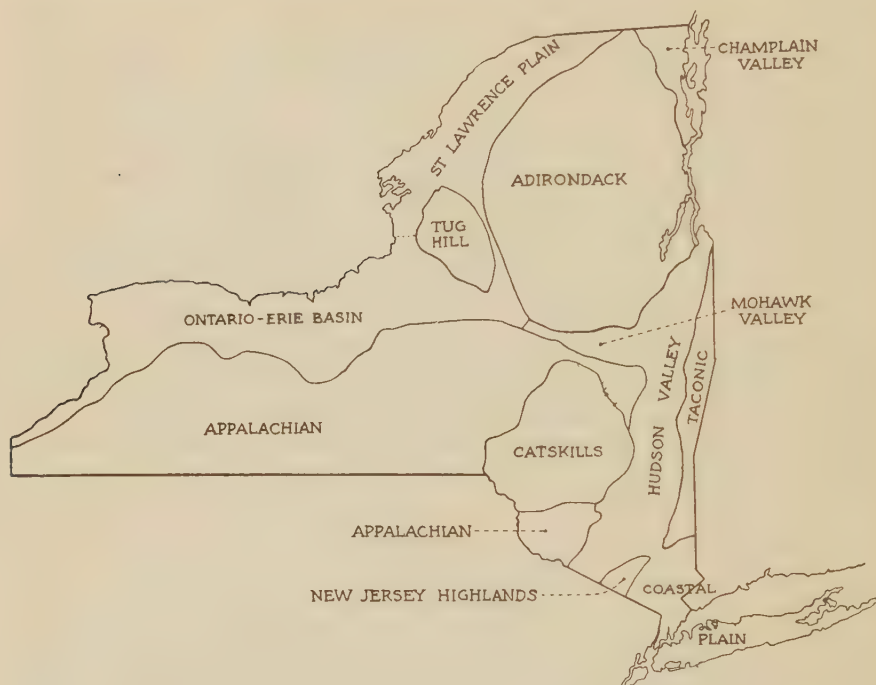


FIGURE 1. PRINCIPAL FAUNAL AREAS OF NEW YORK

lakes and cold bogs. The mountains higher than about 3500 feet rise into the Hudsonian, with conditions much like those of Labrador; while the tops of a few peaks (Marcy, McIntyre, and Whiteface) are alpine in character, largely as a result of the perpetual winds, which keep the forest down and allow the truly alpine plants and animals a foothold. The higher peaks of the northern group have been well explored entomologically, but the southern group, which should show cold Canadian conditions with some Hudsonian, will repay careful collecting. Collectors in many orders have worked in the plateau region, especially about Saranac and Cranberry Lakes and the Fulton Chain; but the most complete list

in any large order is perhaps that due to Hill's many years of collecting of Lepidoptera at Fentons, on the west edge of the plateau.

*Tug Hill* is a plateau of about 1500 feet elevation, with a nearly level top and containing many lakes and swamps. Geologically it attaches not to the Adirondacks close by, but to the Appalachians, while in latitude it should be grouped with the Adirondacks. Entomologically it is unexplored.

The *Ontario-Erie Basin* is a broad plain bordering Lakes Ontario and Erie, and to the northward joining the St. Lawrence Plain. In spite of much snow and cold in winter, conditions are distinctly Upper Austral in the western part; while at North Fair Haven and eastward, Transition forms dominate. It is continuous with the Mississippi Valley on the west, but is reduced along Lake Erie to a strip two or three miles wide. On the north side of Lake Erie, southern Ontario shows the same mild climate and Austral forms. In most orders representatives of both faunal zones are present, especially for the region near Buffalo.

The *Appalachian* district, like the major part of the Adirondack district, is a plateau of from 1500 to 2000 feet elevation, but is cut into numerous blocks by deep through valleys. The characteristic insects represent the Transition zone, but many of the north-facing slopes show Canadian forms, and here and there in the valleys there are pockets with a few Austral species. This is the district for which general remarks as to dates and life cycles, particularly in the Lepidoptera, especially apply. The most thoroughly collected locality is Ithaca, lying in one of the deep through valleys. This fauna of the western part of the district is well indicated by collections made at Rock City, Cattaraugus County, at an elevation of 2500 feet. The interesting narrow strip lying between the Catskills and the Mohawk Valley was studied many years ago by the Albany group of workers. Sharon Springs represents this area, and shows typical Appalachian forms. The Appalachian area south of the Catskills has not been sufficiently studied.

The *Catskills* are a mass of mountains with peaks rising to an elevation of 4204 feet. Most of the collecting has been done at relatively low levels, and shows much the same mixture of Canadian and Transition forms as are found on the colder tops of the Appalachian plateau; but the peaks rise well toward the top of the Canadian zone, and a careful study would probably show Hudsonian forms. The most extensive list of insects in this district consists of the Lepidoptera of Big Indian Valley and Slide Mountain.

The *Mohawk Valley* is a narrow valley separating the Adirondack and Appalachian districts. Most of the country is much broken, and the insects are not very different in character from those of the Appalachian district, but a few southern forms do appear. Such places as Trenton Falls and Wilmurt, in the southern foothills of the Adirondacks, are included in this area because their fauna is more southern in character.



The *Champlain Valley* is a broad open valley similar in conditions and fauna to the St. Lawrence Plain. There is a good list of Lepidoptera from Plattsburg, showing a typical Transition fauna and containing many southern forms. The fauna of Peru is more northern in character, and represents the broad sandy area on the eastern side of the Adirondack district, with peculiar dune forms. The area as a whole has not been sufficiently studied.

The *Hudson Valley* is an open valley with a decidedly Austral character, especially south of Albany; northward it is narrow and broken, with a Transition fauna continuous with that of the Champlain Valley but showing a greater dominance of acid-soil forms in the Lepidoptera than any other part of the State in which the writer has collected. There are several good lists, especially those based on the material from the vicinity of Albany in the State Museum, and from a group of localities in the lower valley collected by Dyar and by the New York City entomologists. Florida, in Orange County, where S. W. Frost did some collecting, is in an extension of this district across to the Delaware River, and shows the same rather warm conditions.

The *Taconic* district consists of a sharp range of mountains extending along the eastern edge of the State, continuous with the Green Mountains of Vermont on the north, and with the Berkshire Hills on the east. To the southward they are separated from the Highlands of the Hudson only by the narrow gorge of the Hudson River. They have not been properly explored entomologically, the few short Taconic lists of insects being from the warmer deep valleys; but they show a true Canadian fauna with many acid-soil forms, like the Berkshires just across the state line.

The *New Jersey Highlands* and the Highlands of the Hudson represent the same wooded hilly area, continuous with the Taconics and Green Mountains on the north and the Blue Ridge on the south. The insects of this district have not been thoroughly collected, but the fauna of its extension into New Jersey shows a Transition character with woodland forms dominant because of the low altitudes, but with few of the cooler Transition forms.

*New York City* is not really a separate district, but it is particularly well known. The climate is practically Upper Austral, with some cooler areas in Westchester County. The country is hilly and originally was wooded, showing the forest type. The exact locality of many of the earlier records given as New York City and vicinity is very uncertain, a large region including Long Island, Staten Island, the lower Hudson River Valley, and part of New Jersey, being included.

The *Coastal Plain* comprises the whole of Long Island and Staten Island, with the mainland coast and the vicinity of New York City, just discussed. A great part of it is glacial moraine, more or less worked over by wind and water, and contains areas of sand and gravel and many square miles of

salt marshes. The barrens have been fairly well surveyed, but the marsh needs more intensive study, and the relatively small areas of rich upland which have not yet been too much disturbed by man should receive special attention. It is certain that many forms now known only from Massachusetts and New Jersey, or even farther afield, will be discovered in this area. The climate is, as a whole, Upper Austral, but the easterly part of Long Island shows distinctly colder types and might best be assigned to the Transition zone. Unfortunately many of the early records are merely "L. I."

## CLASS INSECTA

### ORDER THYSANURA

Compiled by J. W. FOLSOM

#### FAMILY MACHILIDAE

##### MACHILIS Latreille

**M. variabilis** Say. Southern end of Canandaigua L., Aug, *Bish*. Generally distributed: Mass, NY, Ind, Tenn, and NC.

**M. (Trigonophthalmus) alternata** Silv. **LI:** Cold Sp. Harb. (Silv).

#### FAMILY LEPISMIDAE

##### SUBFAMILY LEPISMINAE

##### LEPISMA Linnaeus

**L. saccharina** L. Macedon, Je, *Hd*; Ithaca, Ap, J1, Oct (MacG). Generally distributed: Europe; Mass, NY, Tex.

##### CTENOLEPISMA Escherich

**C. quadriseriata** Pck. Ithaca, Feb (MacG). Generally distributed: Mass, RI, Conn, NY, Tenn.

##### THERMOBIA Bergroth

**T. domestica** Pck. Ithaca, abundant in Roberts Hall for last 10 years at least; Ft. Plain, Aug-Sep, destroying paper (Felt); Albany (Felt); Peekskill?, eating laces and paper boxes (Lint); NYC, very abundant in house during the whole year of 1922 (Mutchler). Generally distributed: Mass, NY, Ill.

#### FAMILY CAMPODEIDAE

##### CAMPODEA Westwood

**C. fragilis** Mein. Ithaca, Je, in damp sandy earth, *WSBarnard*; Albany, Je, *Yg*, *Bish*; Voorheesville, Aug, *Leon*, is typical *fragilis*, not var. *americana* Pck. Generally distributed: Europe; eastern US.

**C. fragilis** var. *americana* Pck. Ithaca, Feb (MacG, Silv); **LI:** Cold Sp. Harb. (Silv).

## ORDER COLLEMBOLA

Compiled by J. W. FOLSOM

## FAMILY PODURIDAE

## SUBFAMILY PODURINAE

## PODURA (Linnaeus) Tullberg

- P. aquatica** L. (*granulata* MacG.). Ithaca, Oct–Nov, *RubyBHughes*. Common on surface of water of ponds and streams; adapted to a semi-aquatic existence; often appears in aquaria. Generally distributed: Europe; Siberia; Canada; Mass, NY, Ohio, Ind, Ill, Tenn, Wis, Minn, Wash.

## SUBFAMILY ACHORUTINAE

## ACHORUTES Templeton

- A. packardi** Fols. (*nivicola* Pck., 1873; Lint., 1885; MacG., 1891; Harv., 1893; Lint., 1896). Macedon, Ap–May, *Hd*; Ithaca, Jan–Feb (Comstock&MacG); Stockport, Ap; Monsey, Mar, *HGlasgow*. Generally distributed: Me, Mass, NY, Penn, Md, Ohio, Ill; Canada.
- A. packardi** var. **dentatus** Fols. Potsdam, May, *Yg*; Ithaca, Ap (MacG); Ghent, Ap. Generally distributed: Me, Mass, NY, Ohio.
- A. socialis** Uzel (*diversiceps* Lint.). Otto, *Comstock*; Karner, Ap, *Lint*; Voorheesville, Ap, on snow, *Bish*; Kingston, Mar, pools black with them, *Leon*. The "snow flea" was described by Fitch (1847) under the name *Podura nivicola*; Uzel gave, however, the first adequate description of the species. Generally distributed: common in most parts of Europe; Me, Mass, NY, Penn, Mich; Canada.
- A. harveyi** Fols. Ithaca, Ap (MacG). Generally distributed: Me, Mass, Conn, NY, Md; Canada.
- A. macgillivrayi** Fols. Ithaca, Ap–Nov (MacG). Generally distributed: NY, Ill.
- A. manubrialis** Tull. **LI**: Riverhead, Oct, frequently doing great damage to cauliflower plants, seedling cucumbers, and melons (Huck). Generally distributed: Europe; S. America; NY.
- A. armatus** Nic. (*boletivorus* Pck., *marmoratus* Pck., *texensis* Pck., *pratorem* Pck.). Varna, Mar, *Bks*; Ithaca, Ap (MacG); NYC, JI (Silv). Generally distributed: cosmopolitan. Europe; S. America; New Zealand; Sumatra; Canada; Cuba; Me, NH, Mass, Conn, NY, Penn, Ohio, Ill, Mo, Tex, Minn, Colo, Calif, Wash, Alaska.
- A. (Schöttella) glasgowi** Fols. Blauvelt, Mar, May, *HGlasgow*; NYC, JI (Silv).

## XENYLLA Tullberg

- X. humicola** Tull. **LI**: Cold Sp. Harb., *CBDavenport*. Generally distributed: Europe; Canada; Mass, NY.
- X. welchi** Tull. **LI**: Bay Shore, Oct, in a greenhouse. Generally distributed: NY, Ill, Kans.
- X. maritima** Tull. Macedon, Ap, *Hd*. Generally distributed: Europe; NY.

## SUBFAMILY NEANURINAE

## PSEUDACHORUTES Tullberg

- P. dilatatus* MacG. (*Brachysius* MacG.). Ithaca; types apparently lost. Generally distributed: NY.

## ANURIDA Laboulbène

- A. maritima* Guér. LI: Sea Cliff, *Bks*; Cold Sp. Harb., *CBDavenport*. On sea-shore between tide marks; feeds on dead mollusks or crustaceans and is strictly maritime. Generally distributed: Europe; North America; Atlantic coast, Mass, NY, NJ, Fla.

## NEANURA MacGillivray

- N. muscorum* Temp. (*Anura gibbosa* Pck., *A. sextuberculata* Harv.). Macedon, Ap, *Hd*; Ithaca, Mar–Ap (MacG); McLean, Je, Cy; Voorheesville, Aug, *Leon*, *Bish*. Generally distributed: Europe; Canada; Me, NH, Mass, Conn, NY, Penn, Ohio, Ill, Minn.

## SUBFAMILY ONYCHIURINAE

## ONYCHIURUS Gervais

- O. armatus* Tull. Ithaca, Feb (MacG). Generally distributed: Europe; Siberia; Arctic region; E. Africa; Chile; Me, NY, Ill.
- O. subtenuis* Fols. Keuka L., Oct, Cy; McLean Bogs, Ap, Je, Cy; Voorheesville, Aug, *Leon*. Generally distributed: NY, Penn, Ill.
- O. fimetarius* L. McLean Bogs, Ap, Cy; NYC, JI (Silv). Generally distributed: cosmopolitan. Europe; Africa; Sumatra; Canada; Mass, NY, Penn, DC, Fla, Ohio, Calif.

## TULLBERGIA Lubbock

- T. sp.* Central Nyack, Nov, 1918, *BYSidoli* (from WEBritton). Generally distributed: NY.

## FAMILY ENTOMOBRYIDAE

## SUBFAMILY ISOTOMINAE

## ANUROPHORUS Nicolet

- A. laricis* Nic. NYC, JI, 1908 (Silv). Generally distributed: Europe; Siberia; NY, Minn.

## FOLSOMIA Willem

- F. quadrioculata* Tull. Mt. McIntyre, 4000–5000 ft., JI, *Leon*; NYC, JI (Silv). Generally distributed: northern and middle Europe; Arctic regions, Canada; NY, Ill, Minn.
- F. fimetaria* L. Ithaca, Mar, *Ndm*, Nov; NYC, May. One of the commonest of the soil species. Often under stones, loose bark, etc. Common in flower-pots in dwellings and greenhouses. Often on well water. Generally distributed: Europe; Siberia; Arctic islands; Mass, NY, NJ, DC, Ohio, Ill, Ia, Kans, Minn, Calif, Alaska.
- F. nivalis* Pck. NYC, JI, 1908 (Silv). Generally distributed: Me, NY, Ia.



## ISOTOMA Bourlet

- I. besselsi** Pck. **LI**: Cold Sp. Harb., Jl, *CBDavenport*. Strictly littoral; on sea-shore between tide marks; probably distributed by marine currents. Generally distributed: Finland; Norway; England; Scotland; Greenland; Spitzbergen; Nova Zembla, etc.; Tierra del Fuego; Mass, NY, Calif.
- I. schäfferi** Krausbauer. Voorheesville, Nov, *Leon*. Generally distributed: Europe; NY, Mass.
- I. minuta** Tull. Westport, May, *FCSmith*, "in hotbeds in large numbers"; Red Hook, Je (Felt); Nassau Co, Ap, *Cy*, "in greenhouse in masses." A soil species; minute, but sometimes occurring in masses in immense numbers. Generally distributed: Europe; Canada; Mass, Conn, NY, Penn, Ga, Ill, Ia, Kans, Tex.
- I. immersa** Fols. **LI**: found in enormous numbers in a mushroom cellar (Lint). Generally distributed: NY.
- I. albella** Pck. Potsdam, May, *Yg*; Wells, Jl, *Yg*; Geneva, Jl, *HGlasgow*; Albany, Feb, from a filter of city water (Lint).
- I. walkeri** Pck. (*leonina* Pck.). Macedon, Ap, *Hd*; Ithaca (MacG). Common in colonies under recently loosened bark of trees or logs. Generally distributed: Mass, NY, Penn, Ohio, Ill, Ia, Minn; Canada.
- I. olivacea** Tull. Albany, May, 7, 1924, *Yg*. Generally distributed: Northern Europe; Greenland; Canada; NY.
- I. cinerea** Nic. (MacGillivray's *unica*, *dilatata*, *inclinata*, and *lateraria*). Macedon, Ap-May, *Hd*; Ithaca (MacG); Albany, May, *Yg*. Abundant in colonies under recently loosened bark of trees and logs. Generally distributed: Europe; Siberia; Franz Josef Land; Canada; Me, Mass, NY, Ohio, Ill.
- I. arborea** L., Agren. (MacGillivray's *synonymica* and *terminata*). Potsdam, May, *Yg*; Macedon, Ap-May, *Hd*; Ithaca, Feb-Mar (MacG), Mar, *Dobrosky* (Fols). Generally distributed: Northern Europe; Me, Mass, NY, Ohio, Ill.
- I. arborea** var. **nigra** MacG. (*nigra*, *brunnea*, and *speciosa*). Ithaca, Mar, 1890 (MacG). Generally distributed: Me, Mass, NY, Ohio, Ill, Minn; Canada.
- I. viridis** Bourlet (Packard's *glauca* and *plumbea*). Potsdam, May, *Yg*; Macedon, Ap, *Hd*; Ithaca, Sep (MacG); McLean Bogs, Ap, *Cy*; Albany, Je, *Yg*; **LI**, *Bks*. Abundant in soil, under wood, stones, etc.; the largest species of its genus in NA and Europe, and easily seen with the naked eye. Generally distributed: Europe; Arctic islands; Canada; Me, NH, Mass, NY, DC, Ohio, Ill, Tenn, Ia, Tex, Minn, Colo, Calif, Wash, Alaska.
- I. viridis** var. **riparia** Nic. Mt. McIntyre, 4000-5000 ft., Jl, *Leon*; Ithaca, Feb-Mar (MacG); **LI**, Dec, *Bks*. Generally distributed: Europe; Siberia; Canada; NY, NH, Va, Ia, Tex, Calif.

## ISOTOMURUS Börner

- I. palustris** Müller (*aequalis* MacG.). Sodus Pt., Je, *Hd*; Ithaca, May-Je, Oct, *RubyBHughes*; Voorheesville, Aug, *Leon*; Pine Plains, Je, *Yg*; **LI**: Great Pond, Riverhead, May, *Bish*. A common species on the surface of pools and streams; varies greatly in coloration. Generally distributed: Europe; Greenland; Canada; Cuba; Me, Mass, NY, Md, Ga, Ohio, Ill, Ia, Wis, Tenn, Tex, Minn, Calif.

## SUBFAMILY TOMOCERINAE

## TOMOCERUS Nicolet

- T. flavescens** Tull. var. **separatus** Fols. Mt. McIntyre, 4000–5000 ft., JI, *Leon*; Barneveld, Ap–Oct, *GeoNWolcott*; Penn Yan, May, *Cy*; Ithaca, Sep (MacG); McLean, JI, *Cy*; Howard, JI, *Cy*; Ballston L., Aug, *Wlf*; High Bridge Gorge, Schenectady, Aug, *Wlf*; Basin Bay, L. George, Aug, *CarylHaskins*; Karner, JI, *Wlf*; Voorheesville, Je, *Bish, Wlf*; Nassau L., Sep, *Leon & Wlf*; Slide Mt., Je, *Cy*; Highland, Aug, *Wlf*; West Park, Aug, *Wlf*; Ramapo Mts., Suffern, May, *Cy*; **LI**, *Bks.* Generally distributed: Me, NH, Mass, NY, Penn, DC, Ga, Tenn, Ohio, Ind, Ill, Ia, Mo, Mich; Nova Scotia; Ontario.
- T. flavescens** Tull. var. **americanus** Schött. Mt. McIntyre, 4000–5000 ft., JI, *Leon*; Adirondack Lodge, Je, *Bish*; Potsdam, May, *Yg*; Barneveld, Ap–Oct, *GeoNWolcott*; Ithaca, JI, Sep (MacG); McLean Bogs, Ap, Je, *Cy*; Howard, JI, *Cy*; Ballston L., Aug, *Wlf*; Basin Bay, L. George, Aug, *CarylHaskins*; Nassau L., Sep, *Leon & Wlf*; Tompkins Corners, JI, *Wlf*; Karner, JI, *Wlf*; Voorheesville, Je, *Wlf & Bish*, Aug, Nov, *Leon*; Slide Mt., 3000 ft., Je, *Leon*; White Plains, Sep, *Leon*; **SI**, Jan; **LI**: Great Pond, Riverhead, May, *Bish*. A soil species; not known to be of economic importance. Generally distributed: NH, Mass, NY, NJ, Va, Ohio, Ill, Tenn, Mo, Mich, Minn, Miss, Tex, Colo, N. Mex, Calif, Ore, Wash, Alaska; Canada.
- T. vulgaris** Tull. Potsdam, May, *Yg*; Adirondack Lodge, Je, *Bish*; Wells, JI–Aug, *Yg*; Ithaca, Ap, Sep (MacG); Freeville, Aug, *Cy*; Claverack, Mar, *Cy*. Generally distributed: Europe; Canada; Me, NH, Mass, NY, Penn, Ill, Colo, Minn, Wash.

## SUBFAMILY ENTOMOBRYINAE

## ENTOMOBRYA Rondani

- E. purpurascens** Pck. Potsdam, May, *Yg*; Adirondack Lodge, Je, *Bish*; Wells, Je, Aug, *Yg*; Macedon, Ap, *Hd*; Ithaca, Mar, *Dobroscky*; Voorheesville, Aug, *Leon*; Nassau L., Sep, *Wlf*; **LI**: Jamaica, Je, *Wlf*; Great Pond, Riverhead, May, *Bish*. Generally distributed: Mass, NY, Ill; Canada.
- E. griseo-olivata** Pck. "NY", Mar 27, 1890 (MacG). Generally distributed: Mass, NY.
- E. hexfasciata** Harv. Adirondack Lodge, Je, *Bish*; Slide Mt., Je, *Cy*; Karner, JI, *Wlf*; Ballston L., Aug, *Wlf*; Voorheesville, Aug, *Leon*; Valley Cr. Swamp, near Voorheesville, Je, *Bish & Wlf*; Nassau L., Sep, *Wlf*; **LI**: Riverhead, May, *Bish*; Mineola, JI, *Wlf*. Generally distributed: Me, Mass, NY; Canada.
- E. ligata** Fols. Ithaca, Aug (MacG); Karner, JI, *Wlf*; Voorheesville, Aug, *Leon*; **LI**: Mineola, JI, *Wlf*; Garden City, Je, *Wlf*. Generally distributed: NY.
- E. multifasciata** Tull. (*decemfasciata* Pck.). Potsdam, May, *Yg*; Ithaca, Mar–Ap (MacG); Voorheesville, Aug, Nov, *Leon*; **LI**: Garden City, Je, *Wlf*; Montauk, May, *Cy*. Generally distributed: Europe; Me, Mass, NY, Tenn, Tex, Calif, Wash.
- E. assuta** Fols. Macedon, Ap–May, *Hd*; Geneva, Je, *HGlasgow*; Ithaca, Jan–Feb, *Dobroscky*. Generally distributed: Vt, NY, Ill.
- E. mineola** Fols. **LI**: Mineola, JI 8, 1923, *Wlf*, type.
- E. clitellaria** Guthrie. Macedon, Ap 20, 1924, *Hd*. Generally distributed: NY, Ill, Minn.

## SIRA Lubbock

- S. buski** Lub. Nassau L., Sep 3, 1923, *Wlf.* Generally distributed: Europe; Siberia; Canada; Mass, NY.

## LEPIDOCYRTUS Bourlet

- L. albus** Pck. Voorheesville, Aug 30, 1923, *Leon & Bish.* Generally distributed: Europe; Mass, NY.
- L. cyaneus** Tull. (*metallicus* Pck.). Wells, Je, Aug, *Yg*; Adirondack Lodge, Je, *Bish*; Mt. McIntyre, 4000–5000 ft., *Jl, Leon*; Spy L., Je, *Yg*; Macedon, *Ap, Hd*; Ithaca, May, Dec (MacG); Ballston L., Aug, *Wlf*; Voorheesville, Aug, *Leon & Bish*, Nov, *Leon*; **LI**: Sea Cliff, *Jl, Bks.* Generally distributed: Europe; Siberia; Africa; Me, Mass, NY, Ohio, Tenn, Alaska.
- L. violentus** Fols. Potsdam, May, *Yg*; Voorheesville, Nov, *Leon.* Generally distributed: Mass, NY, Ind, Ill.

## ORCHESELLA Templeton

- O. cincta** L. (*flavopicta* Pck.). Albany, *JHEmerton* (Pck), also (Lint); **LI**: Sea Cliff, *Bks.* Generally distributed: Europe; Siberia; Mass, NY, Tenn.
- O. ainsliei** Fols. Voorheesville, Nov 9, 1923, *Leon.* Generally distributed: NY, Tenn, Ill, Ia.

## FAMILY SMINTHURIDAE

## SUBFAMILY SMINTHURIDINAE

## PROSMINTHURUS Willem

- P. aquaticus** Bourlet (*amicus* Fols.). Ithaca, spring and fall, *RubyBHughes*; Albany, Feb, *CarylHaskins.* Found on the surface of ponds and streams; structurally adapted for locomotion on the surface of the water. Generally distributed: Europe; Canada; Mass, NY, Ohio, Ill.

## SMINTHURINUS Börner

- S. elegans** Fitch, 1863 (*quadrilineatus* Tull., 1871). **LI**: Sea Cliff, *Bks.* Generally distributed: Europe; Mass, NY, W. Va, Ohio, Tenn.

## SUBFAMILY SMINTHURINAE

## BOURLETIELLA Banks

- B. hortensis** Fitch, 1863 (*quadrisingatus* Pck., *pruinusosus* Tull., 1872). Macedon, Je, *Hd*; Oneonta (Felt); Albany (Fitch); **LI**: Sea Cliff, *Bks.* Abundant in gardens and fields, and occasionally of great economic importance locally; has caused considerable injury to young vegetable plants—cucumbers, onions, etc.—in Mass, Conn, Va. In Mass, May, 1922, it occurred in onion fields in astonishing numbers with serious injury, and fields had to be plowed up (Amherst, Mass, Fern). In Nova Scotia it wrought havoc, throughout the province, to turnips, mangels, etc., as these were emerging from the ground (WHBritton). Generally distributed: Europe; Japan; Canada; Me, Mass, Conn, NY, NJ, Va, Ohio, Ill.
- B. arvalis** Fitch (*luteus* Lubb.). Rochester, *Jl, Hd*; Macedon, Je, *Hd*; **LI**: Sea Cliff, *Bks.* Common in fields and gardens. Generally distributed: Europe; Canada; Mass, NY, Ohio, Mont.

- B. spinata** MacG. Ithaca (MacG); Cinnamon L., J1, *Wlf*; **LI**: Sea Cliff, *Bks*.  
Adapted to live on the surface of water. Generally distributed: Mass, NY.

SMINTHURUS Latreille <sup>2</sup>

- S. minutus** MacG. Ithaca, *RHPettit* (MacG). Generally distributed: Mass, RI, NY.  
**S. quadrimaculatus** Ryder. Ithaca, J1 20, 1889 (MacG). Generally distributed: NY, Ill.  
**S. clavatus** Bks. **LI**: Sea Cliff (*Bks*). Generally distributed: NY.  
**S. macgillivrayi** Bks. **LI**: Roslyn, *Bks*. Generally distributed: NY.  
**S. nigripes** Bks. **LI**: Sea Cliff, *Bks*. Generally distributed: NY.  
**S. sylvestris** Bks. **LI**: Sea Cliff, *Bks*. Generally distributed: NY.  
**S. argenteornatus** Bks. **LI**: Sea Cliff, *Bks*. Generally distributed: NY.  
**S. argenteornatus** var. *albescens* Bks. **LI**: Sea Cliff (*Bks*). Generally distributed: NY.  
**S. dorsalis** Bks. **LI**: Sea Cliff, *Bks*. Generally distributed: NY.  
**S. fraternus** Bks. **LI**: Sea Cliff, *Bks*. Generally distributed: NY.

## SUBFAMILY DICYRTOMINAE

## PTENOTHRIX Börner

- P. unicolor** Harv. Ithaca, J1 (MacG); Howard, J1, *Cy*; Ballston L., Aug, *Wlf*; Voorheesville, Aug, *Bish*; Nassau L., Sep, *Wlf*; White Plains, Sep, *Leon*; **LI**: Sea Cliff, *Bks*; Great Pond, Riverhead, May, *Bish*. Common under damp logs. Generally distributed: Me, Mass, NY, Ohio, Ill, Minn.  
**P. purpurescens** MacG. **LI**: Sea Cliff, *Bks*. Generally distributed: NY.  
**P. marmoratus** Pck. Cinnamon L., J1, *Wlf*; Ithaca, J1 (MacG); McLean, Je, *Cy*; Howard, J1, *Cy*; **LI**: Sea Cliff, *Bks*.

## ORDER ORTHOPTERA

Compiled by WILLIAM T. DAVIS

The present list is no doubt fairly complete as far as the distribution of species on Staten Island and Long Island is concerned, but is quite the reverse for the remainder of the State, much of which appears never to have been visited by an entomologist with the object of collecting Orthoptera. The species of this order are most numerous in the southern part of the State, with the northernmost extension of several of them along the coast terminating on Staten Island or Long Island. Probably most of these will not be found in any other part of the State. Among crickets, for example, there are at least six species that are no doubt confined to these islands.

<sup>2</sup> Here used in the broad sense (Fols).



A total of 136 species are recorded in this list, whereas Morse records 126 for New England, including 8 species of adventive cockroaches found but rarely. On the other hand, New Jersey, adjoining New York on the south, has an orthopterous fauna of about 150 species.

Taken together, Staten Island and Long Island have 112 species, and 24 species are recorded as not occurring on these islands. These species are usually of more northern range. A collector will discover that some of the species mature earlier on Staten Island than on the eastern part of Long Island.

The sequence of the families follows closely that of Morse's *Manual of the Orthoptera of New England* (1920), which is nearly that of Westwood (1839). In Morse's book, or in the very useful *Orthoptera of Northeastern America*, by Dr. W. S. Blatchley (1920), which covers a much wider area, the species here mentioned are all treated in detail, excepting three which have been recently described. Dr. Blatchley's book, moreover, contains a useful bibliography of the writings of Scudder, Rehn and Hebard, Caudell, and other authors who have mentioned the Orthoptera of the State of New York.

#### FAMILY BLATTIDAE<sup>3</sup>: COCKROACHES

##### BLATTELLA Caudell

- B. germanica** L. CROTON BUG. The adult of this common introduced household insect is most common in early summer, but in warm kitchens and among warm water pipes it may be found at almost any season. It is generally distributed in such situations throughout the State.

##### PARCOBLATTA Hebard<sup>4</sup>

- P. virginica** Brunner (*borcalis* Brunner). Ardsley-on-Hudson, Je, *Winters*; West Pt., Je, Sep 2, three females; Pine I., Je; Rochester, Jl, *Deveson*; Coy Glen, Je 3, a male and its nymphal skin found under stone; Conesus L., Je 23; **SI**: adults, Je-Sep, females with their egg-capsules, Je-Jl; **LI**: Wyandanch, Jl; Coram, Aug; Selden, Aug; Yaphank, Je-Sep, Jl 13, a female with oötheca; Wading R., Je-Jl, Je 27, a female with oötheca, Je 27, 28, males on Pyrus bush, feeding on honeydew of aphids; Riverhead, Jl-Aug; Gardiners I., Je, Aug. The females are much longer-lived than the males.

- P. uhleriana** Sauss. West Pt., Je; Ithaca, May (CU); **SI**: adults Je-Sep (females live the longer); Clove Val., Jl 15, a female with oötheca; **LI**: Wyandanch, Jl; Half Way Hollow Hills, Jl 3, a female with oötheca; Coram, Aug; Selden, Aug 31, six females; Yaphank, Jl, Aug-Sep; Wading R., May-Jl, Je 27, a

<sup>3</sup> In *The Blattidae of North America*, Hebard records *Eurycotis caraihea* (Bol.), *Leucophaea maderae* (Fab.), and *Blaberus discoidalis* Serv., as adventive species found within the limits of the State, and Professor Morse mentions still others as having been introduced into New England. None of these insects, however, are likely to become established.

<sup>4</sup> Species of this genus come at night to sugar bait spread on the trunks of trees and elsewhere.

male on *Pyrus* bush, feeding at night on honeydew of aphids, JI 14, one male; Riverhead, JI; Orient, Je; Gardiners I., Je.

The nymphs of this and other *Parcoblattae* pass the winter under dead leaves and litter in the woods, and mature the following spring.

**P. caudelli** Hebard.<sup>5</sup> **LI**: Selden, Aug 31, six females; Yaphank, JI-Sep, JI, females with oötheca, JI 8, six males; Wading R., Je 27 and 28, males on *Pyrus* bush feeding on honeydew of aphids.

**P. pennsylvanica** DeG. Bronx Pk., NYC; West Pt., Je; Hudson, *Morse* (Rehn & Hebard); Ithaca, May-JI (CU); Portageville, Je; Conesus Lake, Je; Lewiston, JI, *Wat*; Rochester, *Deveson*; Thousand Isls., two males; **SI**: adults, under loose bark, etc., Je-Aug.

The males are especially active and are often hard to capture.

### BLATTA Linnaeus

**B. orientalis** L. Generally distributed over the State. While in very warm houses this introduced species may be found at any time of year, in the average dwelling, which is cool in winter, it has decided seasons, and mature individuals are most common in the late spring and in summer. Hebard states that as its appearance is coincident with the arrival of the shad in the Delaware River, it is locally known as the "shad roach." While the females cannot fly, they are excellent runners, and on **SI** are sometimes found under stones, etc., far from any dwellings. None, however, appear to survive the winter as far north as NY State, unless they are protected artificially by man.

### PERIPLANETA Burmeister

**P. americana** L. As far north as NY this American species requires even more protection in order to survive the winter than does *Blatta orientalis*, and for that reason it is found in but few detached dwellings. In greenhouses, hotels, and any large buildings that are kept warm, it finds more congenial surroundings and multiplies accordingly. It is very common in the reptile house, Bronx Pk., where it is trapped as living food for lizards, etc. As it is found on ship-board, it also gets into the sea, and so occasionally is washed ashore on **SI** and **LI**. Rochester, *Deveson*, is the most northern record for the State.

**P. australasiae** Fab. A nymph of this introduced species was found in the greenhouse, Prospect Pk., Brooklyn, Jan. 5, 1907, and no doubt it occurs in many such places. It is very common in parts of the Southern States. Ithaca, Aug 24, 1894, a female with its egg capsule (CU).

### PYCNOCELUS Scudder

**P. surinamensis** L. This species is very common in parts of the Southern States and has been introduced in the reptile house, Bronx Pk. It is reported also from several localities in New England. The many N. A. specimens thus far found have been females, with the exception of a single male collected in the reptile house, Jan 12, 1914.

<sup>5</sup> The compiler has discovered that the females of *caudelli*, contrary to the description of the species, have short tegmina, and closely resemble the same sex in *fulvescens* Sauss. & Zehnt.; so the published Long Island records of *fulvescens* must appear under *caudelli*.

## PANCHLORA Burmeister

- P. cubensis** Sauss. This beautiful green roach is adventive from tropical America and is usually introduced in bunches of bananas. It is an out-of-door roach and cannot establish itself as far north as NY State. It has been brought to **SI** in March, Aug, and Dec; all these four specimens were females. In the Brooklyn Museum there is a female taken in that city in a bunch of bananas, Jan, 1912. Other records are Albany, Mar (US), and Rochester, Ap, *Deveson*.

## CRYPTOCERCUS Scudder

- C. punctulatus** Scud. This wingless shining black or brownish black roach, occurring in decayed moist logs in thick woods, is found from southwestern NY to northern Ga. It is found also along the Pacific coast. NY, one juvenile paratype (MCZ).

FAMILY MANTIDAE<sup>6</sup>: PRAYING MANTES, SOOTHSAYERS

## MANTIS Linnaeus

- M. religiosa** L. Introduced from the Old World. Rochester, Charlotte, Summer-ville, 1899, *HFA* *Wood*, reported in Ent. News, Dec, 1899, by M. V. Slingerland. Apparently now well established about Rochester and Ithaca. Will probably spread slowly.

## PARATENODERA Rehn

- P. sinensis** Sauss. An Asiatic species, first introduced about 1896 at Meehan's Nursery, Germantown, Pa. It was brought to **SI** in 1902 and is now abundant in several places. It prefers dry hillsides with cat brier and other tangle. As the insect is beneficial, efforts have been made to establish it elsewhere near NYC.

## FAMILY PHASMODIDAE: WALKING STICKS

## DIAPHEROMERA Gray

- D. femorata** Say. Yonkers, *Buo & Farley*; Ramapo, Oct; West Pt.; Ft. Montgomery, Aug, *Schott*; Monroe, Oct; Milton, Sep, *Joutel*; Minnewaska, Aug-Sep, *Nic*; Allaban, Catskills, Aug, *Dow*; Stuyvesant Falls (NYS); Albany, Jl, Oct (NYS); Keeseville, *Lg*; Ithaca, Sep (CU); Watertown, Oct (NYS); Rochester, *Deveson*; Niagara Falls, the type locality (Say). This species is particularly fond of hazel, chestnut, linden, and some oaks. Not reported from **SI**, but occurs on **LI**: Orient, 1922, *Lath*; Shelter I. Elsewhere in the State it appears to be generally distributed, usually occurring in young trees and on bushes.

## MANOMERA Rehn and Hebard

- M. blatchleyi atlantica** Ds. **SI** is the type locality of this race, or, more likely, distinct species. It is generally distributed over **LI**, mature individuals being found from Jl 30 to Oct 1. Often on *Solidago rugosa* as well as other golden-rods and associated plants growing in damp meadows.

The only other locality in the State thus far reported is Crotona Pk., Bronx, NYC, Oct 9, *Wat*.

No males are known; females collected from Conn to Va.

<sup>6</sup> *Adventive species*. In addition to *Stagmomantis carolina* (L.), which has occasionally been brought to N. Y. from the Southern States, *Conatista phryganoides* (grisea Fab.) and *Phyllorates chlorophaca* (Blanch.) are reported by Scudder in his *Orthoptera of North America* (1868), from N. Y. The type of *chlorophaca* came from Watertown, but, like *grisea*, is a southern species. A specimen of *Thesprotia graminis* (Scud.), collection US, is stated by Caudell (Proc. U. S. Nat. Mus., 1913) to be labeled "N. Y." It too is a southern species.



## FAMILY TETTIGONIIDAE: KATYDIDS, and their kin

## SCUDDERIA Stål

- S. septentrionalis* Serville. **LI:** Yaphank, Jl 24, 1908 (two flew to light), Jl, 1909; Riverhead, Aug, 1917; Greenport, Aug 3, 1913, at light; Wading R., Jl, 1914.
- S. pistillata* Brunner. Callicoon, Jl 26; Onteora Mt., Aug, *How*; E Jewett, Aug, *Ds*; Saranac, *Ndm* (NYS); Keene Val., Aug-Sep, *Not*; Chateaugay L., *Bowditch*; Mountain View, Franklin Co, Sep, *Not*; Waddington, Aug, *Woodr*; Ithaca (Morse); Batavia, Jl, *Kngt*. A northern form.
- S. curvicauda curvicauda* DeG. Yonkers, Aug, *ERCassey*; L. Mahopac, *TDO'Connor* (Rehn & Hebard, Trans. Am. Ent. Soc., 1914); Waddington, Aug, *Woodr*; Batavia, Aug, *Kngt*. **SI:** Tottenville, Jl 23, 1914, and Jl 26, 1922. **LI:** Coram, Aug-Sep, common on sandy area; Smithtown, Aug; Wading R., Aug; Yaphank, Jl-Aug; Riverhead, Aug; E. Quogue, Aug; Amagansett, Aug.

As this insect is found in northern New England, it probably has a wider distribution in the State than is here recorded.

- S. texensis* Sauss. & Pict. Bronxville, Sep, *Woodr*; Ithaca, Jl-Sep (CU); Geneva, Aug, *Sherm* (Hubbell). **SI:** Generally distributed; mature individuals Jl-Oct; occasionally attracted to light. **LI:** Brooklyn, Sep, *Zab*; Coney I., Sep, *Zab*; Rockaway, Sep, Oct, *Ds* & *Ols*; Fire I., Sep; Maspeth, Sep; Selden, Aug; Wading R., Aug; Patchogue, Sep; Riverhead, Aug; Amagansett, Sep; Montauk, Sep.

As this species has been recorded from the New England States, it is probably to be found more extensively in NY than is here recorded.

- S. furcata* Brunner. Van Cort. Pk., Aug; Mt. Vernon, *Fitch*; Bronxville, Aug; White Plains, Sep, *Leon*; W. Nyack, Aug; West Pt., Sep, Oct; Sullivan Co, Sep; Pine I., Sep, *Brb*; L. Minnewaska, Sep, *Nic*; L. Mahopac, *TDO'Connor* (Rehn & Hebard); W. Hebron, Sep, *Lg*; Ithaca, Jl-Aug, Oct (CU); Otto (CU); Elmira, Sep, common, *Diven*; Batavia, Aug-Sep, *Kngt*; Rochester, *Deveson*. **SI:** Common and generally distributed; mature individuals Jl-Oct. **LI:** Brooklyn, Aug-Sep, *Zab*; Aqueduct, Sep; Maspeth, *Ols*; Flushing, Aug; Oyster Bay, Aug; Selden, Aug; Coram, Aug-Sep; Yaphank, Jl-Sep; Southold, Sep; Bay Shore, Aug-Sep, *Ols*; Patchogue, Sep; Amagansett, Sep; Promised Land, Sep; Gardiners I., Aug.

The black-striped variety *fasciata* Bt., is found in the northern part of the State, but not on SI.

## AMBLYCORYPHA Stål

- A. oblongifolia* DeG. Bronx Pk., Mosholu, Sep, Mt. Vernon, Dunwoodie, Aug, *ERCassey*, L. Mahopac, Aug, *TDO'Connor* (Rehn & Hebard, Trans. Am. Ent. Soc., 1914); W. Nyack, Jl; Coeymans, *EBSmith* (NYS); Clifton Sps., Aug (CU). **SI:** Generally distributed; mature individuals Jl-Oct. Numerous examples of the pink variety have been found, particularly at W. New Brighton and in the Clove Valley. Brown individuals also have been collected. **LI:** Brooklyn, Aug-Sep; Aqueduct, Oct; Woodhaven, Aug; Maspeth, Aug-Sep; Flushing, Aug, *Bell*; Sands Pt., Sep, *Burns*; Wyandanch, Aug; Wading R., Jl; Yaphank, Jl, Sep; Riverhead, Aug; Southold, Sep; Amagansett, Sep; Montauk, Sep.
- A. floridana carinata* Rehn & Hebard. **LI:** During a week spent on Gardiners I. in Aug, 1918, two males, three females, and a nymph were collected. The species is not uncommon in parts of the two forested regions of the island, namely the Great Forest and the Tobacco Lot Forest.

Recorded also from Nantucket and Woods Hole, Mass, but more common southward.

- A. rotundifolia** Scud. Bronx, Sep, *Ang*; Ft. Montgomery, Aug, *Schott*; Marlboro, Sep (Bklyn Mus.—Rehn & Hebard, Trans. Am. Ent. Soc., 1914); Ithaca, Jl—Aug, Oct (CU); Rochester, *Deveson*. **SI**: Generally distributed, and found from late Jl until frost; latest date Oct 11, 1903; not so plentiful as *oblongifolia*. **LI**: Brooklyn, Aug, *Zab*; Pinelawn, Aug; Coram, Sep; Smithtown, Aug; Wading R., Jl; Yaphank, Jl—Aug; Calverton, Sep; Amagansett, Sep; Southold, Sep; Orient, Oct 30, *Lath*.

#### MICROCENTRUM Scudder

- M. rhombifolium** Sauss. Blauvelt, *SBIlusted*. **SI**: Generally distributed. **LI**: Prospect Pk., Brooklyn, Sep; Maspeth, Sep; apparently the species is not found on the eastern part of the island.

Often found in wooded situations and on the wayside trees of well-shaded roads. It is more likely to be found in maple trees than is the true katydid, and lays its eggs on many species of plants. As the season advances, it, like *Pterophylla camellifolia*, often sings when the sun is shining brightly.

#### PTEROPHYLLA Kirby

- P. camellifolia** Fab. Yonkers, *EMWalker*; West Pt., Sept—Oct, *Robn*; Milton, Sep, *Joutel*; Stuyvesant Falls, Coeymans (NYS); Dansville, Sep (CU); Niagara (*EMWalker* in Can. Ent. 36: 330, 1904). **SI**: Once common, but now restricted, so far as known, to a small colony near the Moravian Cemetery, located in 1921 by Miss Miriam Campbell. An early record for the song is July 30 (1908), and the latest date is November 2 (1882). The insects stop singing when the thermometer falls to about 50° (Journ. N. Y. Ent. Soc., Mar, 1922). **LI**: In Journ. N. Y. Ent. Soc., Sept, 1902, p. 174, is the statement by Zabriskie that this species was common some twenty-five years ago about his home in Brooklyn, but in recent years he had not seen nor heard a single one. Away from NYC it is generally distributed and often very common—Jamaica; Center I., Oyster Bay; Selden, laying eggs in bark of locust, Sep 18; Bellport, Aug, *Nic*; Yaphank, Oct 1, common, five females laying eggs in the bark of pitch pines; Calverton, Sep, laying eggs in pine bark; Amagansett, Sep; Gardiners I., Aug; Wading R., Aug 6; Southold, Sep; Greenport, Aug 2, one singing; Orient, Nov 1, *Lath*.

#### NEOCONOCEPHALUS Karney

- N. exiliscanorus** Ds. **SI**: The type locality for this species is **SI**, where it was found on the edge of the salt meadows near New Dorp. It has also been found in many other parts of the island, including Clove Valley, Jl—Sep. **LI**: New Utrecht; Brooklyn, Aug, many in cattail swamp; Woodhaven, Aug; Maspeth, Sep 12, numerous, one male of the brown variety; Flushing, Aug.
- N. lyristes** Rehn & Hebard. **SI**: Found in numerous localities along the edge of the salt meadows at Watchogue and Long Neck in Aug—Oct, but not inland; sometimes seen eating grass seeds. The brown form is darker-colored in this species than in any other native *Neoconocephalus*. **LI**: Woodhaven, Aug; Aqueduct, Oct; Bellport, Aug, *Nic*; Smith's Pt., Oct, *Eng*; Promised Land, Sep; Southold, Sep.

- N. ensiger** Harr. White Plains, Sep, *RFHussey*; Ramapo, Jl; Callicoon, Jl; Oliveira, Sep; Oxford, *SSHall* (Rehn & Hebard, Trans. Am. Ent. Soc., 1915); Ithaca, Aug-Sep (CU); Clifton Sps. (CU); Rochester, Sep, *Deveson*. **SI**: Generally distributed, Jl-Oct. Brown individuals occasional. Sometimes sings in broad day when the sun is shining, but not so frequently as the other *Neoconocephali*. **LI**: Generally distributed; Brooklyn; Maspeth; Flushing; Aqueduct; Central Pk.; Selden; Southold; Greenport; Orient; Yaphank; Amagansett; Montauk; Gardiners I., Aug-Sep.
- N. robustus** Scud. Hoffman I., NY Harbor, Sep 2, 1920, *FMGauge* (Hubbell). **SI**: Found in many localities, but especially on sandy ground near the border of the salt meadows and along the up-beach at New Dorp, Oakwood, etc., Jl-Sep. Brown individuals are numerous. This species will sometimes sing from ten to fifteen minutes without a stop. **LI**: Brooklyn; Woodhaven; Aqueduct; Coney I.; Rockaway; Long Beach; Fire I.; Maspeth; Central Pk.; Selden; Coram; Wading R.; Southold; Greenport; Riverhead; Yaphank; Bellport; Calverton; Amagansett; Promised Land; Montauk; Gardiners I., Aug-Sep.
- N. retusus** Scud. Manhattan I., Nov; Van Cort. Pk.; Bronx, Sep; Yonkers, Oct, *HAAllard* (Rehn & Hebard, Trans. Am. Ent. Soc., 1915); White Plains, Sep, *RFHussey*. **SI**: Generally distributed, and sometimes attracted to light, Aug-Nov. Heard singing as late as Nov 9. Will occasionally sing for more than half an hour without intermission. **LI**: Woodhaven; Aqueduct; Rockaway Beach, *Schott*; Maspeth, *Ols*; Sands Pt., Sep, *Burns*; Orient, *Schott*; Yaphank; Montauk, Aug-Oct.

## ORCHELIMUM Serville

- O. vulgare** Harr. Inwood, Manhattan I., Sep; Van Cort. Pk.; Bronx, Sep; White Plains, Sep, *Leon*; Ramapo, Jl; Sullivan Co; Wilmington, Jl; Berkshire (Rehn & Hebard, Trans. Am. Ent. Soc., 1915); Ithaca, Sep (CU); Elmira, Aug, *Diven*; Silver Creek, Sep, *Leon*; Geneva, Aug, *HBSherman*; Batavia, Sep, *Kngt*. **SI**: Generally distributed, Jl-Oct (Oct 25 is the latest date). Females found laying eggs in pigweed (*Chenopodium*) Sep 28, and in an old fence rail Sep 15. Several of the long-winged form collected. Sings both by day and by night. **LI**: Generally distributed from Brooklyn to Montauk and Orient Pt., Jl-Sep; Shelter I., Aug; Gardiners I., Aug.
- O. gladiator** Bruner. Ithaca, Jl-Aug (CU); Batavia, Jl-Sep, *Kngt*.
- O. minor** Bruner. **LI**: Yaphank, Oct 17, 1913, a female, *Eng*. A pine-tree species, more common among the pine trees of NJ and southward.
- O. concinnum** Scud. **SI**: Found in many places on the salt meadow and along its margin, Jl-Sep. Song much like that of *vulgare*, only lower. **LI**: Brooklyn; Aqueduct; Rockaway; Fire I.; Sands Pt., Sep, *Bs*; Wading R.; Orient, *Lath*; Wading R., Aug; Montauk, Aug-Sep. On Gardiners I., in Aug, 1918, it was found only in a single meadow bordering Bostwick Cr., where four males and three females were collected. On Aug 19, 1919, two females of this species were seen to dive into a pool of fresh water near the Peconic R., Riverhead, and one of them remained beneath the surface for one and a half minutes, the other not so long.
- O. fidicinum** Rehn & Hebard. **SI**: On the salt meadow near Oakwood and Old Place, Aug-Sep. Lives in colonies. **LI**: Rockaway, *Woodr*; Wading R., Aug 29, 1922, a female captured by the wasp *Tachytes mandibularis*—wasp and grasshopper on the road, *Bird & Ds*.
- [*O. nigripes* Scud. has been found in southern Ontario and in Ohio, and therefore it may occur in the western part of New York State.]

## CONOCEPHALUS Thunberg

- C. fasciatus** DeG. Rye, Oct; W. Nyack, Aug; West Pt., Sep; Callicoon, Jl; Keene Val., Aug-Sep, *Not*; Saranac Inn, *Ndm*; Lowville; Ithaca, Aug-Oct (CU); Batavia, Aug-Sep, *Kngt*. In addition, Rehn and Hebard (1915) report it from Chateaugay L., Aug-Sep, *Scudder*; Clifton Sps. (CU); Cattaraugus, Sep (CU). **SI**: Generally distributed and found both along the margin of the salt meadow and inland, Jl-Oct. **LI**: Found from Brooklyn to Montauk and Orient on the salt meadow and inland, Jl-Sep; Gardiners I., Aug, 1918.
- C. brevipennis** Scud. White Plains, Sep; W. Nyack, Aug-Sep; Ft. Montgomery, Sep, *Schott*; West Pt., Sep; DeBruce, Sep; Onteora Mt., *How*; Olivera, Sep; E. Jewett, Aug; Lowville; Ithaca, Aug-Oct (CU); Geneva, Aug, *HBSherman*; Batavia, Aug-Sep, *Kngt*; Chatham, Aug (Morse); Niverville, Aug (Morse). **SI**: Common both on the salt meadows and inland, Aug-Nov. Found as late as Nov 17 in 1888. Has a very faint little song, not to be heard unless one's ear is very close to the singer. As with other Orthoptera, this species eats and sings at the same time. **LI**: Found from Brooklyn to Montauk and Orient, Jl-Sep. Some of the inland localities are Selden, Pinelawn, and Yaphank; Gardiners I., Aug.
- [**C. nemoralis** Scud. "Eastern slope of the Palisades" (Bt). While taken on the NJ side of the state line, it probably extends into Rockland Co, NY.]
- C. strictus** Scud. **SI**: With the clearing of the wooded areas of the island and the consequent drying of the soil, the beard-grass, *Andropogon*, has become generally distributed and with it this grasshopper. It was first observed at Arrochar, Oct 1, 1904, by *Woodr*. Both long- and short-winged examples are found, but those having wings of intermediate length are rare. **LI**: Central Pk., Aug.
- C. nigroleporeum** Bruner. Ithaca (CU & Morse Coll. acc. to Rehn & Hebard, Trans. Am. Ent. Soc., 1915); Junius, Aug; Rochester, *Deveson*; Batavia, Aug-Sep, *Kngt*.
- C. attenuatus** Scud. Ithaca, Oct 27, 1912, two males, three females (CU-Rehn & Hebard, Trans. Am. Ent. Soc., 1915). One female from same locality, Jl 28, 1906, in collection of Zool. Mus., Univ. of Mich.
- C. nigroleporeoides** H. Fox. **SI**: On the salt meadows, Oakwood, Sep 14, 1914, *Ds*; Old Place, Sep 8, 1920, *HHJohnson*. **LI**: Wading R., Aug, in salt meadows, and at Long Pond.
- C. spartinae** H. Fox. **SI**: Abundant and generally distributed on the salt meadows, Old Place, Watchogue, Tottenville, Jl-Sep. Long-winged form sometimes attracted to lights at a distance from the meadows. **LI**: Rockaway, Sep; Montauk, Aug; Bergen Beach, *Dow*; Sands Pt., Sep-Oct, *Bs*; Sea Cliff, Aug, *Os*; Gardiners I., Aug 23, 1918, a female nymph.
- C. saltans** Scud. White Plains, Sep; **LI**: East Meadow, Central Pk., Sep 8, 1911. This insect may be either brownish or green in color, and there are occasional long-winged examples.
- C. viridifrons** Blatch. **LI**: Central Pk., Sep 8 (Ds). Also known from other localities outside the State.

## ATLANTICUS Scudder

- A. testaceus** Scud. White Plains, Jl, *JMFarley*; Croton-on-Hudson; West Pt., Je-Sep, *Robn & Ds*. **SI**: On June 26, 1892, very common in a low wet field at Watchogue; found also in Oct. **LI**: Half Way Hollow Hills, Jl; Yaphank, Jl, *Eng*; Wading R., Je-Jl, on Jl 26, 1914, two males on bushes several feet from the ground and singing; Riverhead, Aug.



Most of the older records for this species are under the name *pachymerus* Burm.; the true *pachymerus*, however, according to Rehn and Hebard, is a more southern species.

- A. davisii** Rehn and Hebard. The following is from Rehn and Hebard's revision of *Atlanticus* (Trans. Am. Ent. Soc., 1916): Ithaca, JI, Aug, *OEPearce & Comstock*; Sullivan Co, *Ds*; E. Jewett, Aug, *Ds*; Catskills, Sep; *CuJr*; L. George, Aug, *Zab*. To the above may be added Mt. Whiteface, JI, 1914, numerous specimens nearly fully-grown. In parts of Pa and Va, this is a common species.
- A. americanus** Sauss. Ft. Montgomery, Oct 2, *Schott*; West Pt., Je, nymphs; Peekskill, Sep. **SI**: Generally distributed in the wooded areas. Nymphs in JI and adults in Aug-Oct. **LI**: Floral Pk., JI, *HThurston*; Half Way Hollow Hills; Wyandanch, Aug; Wading R., JI; Yaphank, Aug-Sep; Patchogue, Sep; E. Quogue, Aug.

Most of the older records for this species are under the name *dorsalis* Burm.; the true *dorsalis*, however, according to Rehn and Hebard, is a more southern form.

#### CEUTHOPHILUS Scudder

- C. nigricans** Scud. E. Jewett, Aug; Mt. Whiteface, JI; Chateaugay L., *Scud* (Rehn and Hebard, Proc. Acad. Nat. Sci. Phila., 1916, p. 275-276); Onondaga Co, Ap 9, 1922 (Hubbell); Rochester, JI, *Deveson*. **LI**: Yaphank, Sep.

Blatchley considers *C. neglectus* Scud., described from Ithaca, the same as *nigricans*, which has page priority.

- C. maculatus** Harr. In his paper on *The North American Ceuthophili* (Proc. Am. Acad. Arts and Sci., 1894), Scudder gives the following NY localities: Chateaugay L., *F.C.Bowditch*; Ithaca (CU); reported also from Howe Cave, *Pck*; Onteora Mt., JI 29, 1901, *How* (Caudell); Rochester, Aug-Sep, *Deveson*.

- C. davisii** Blatch. **SI**, JI-Aug. Davis states that he has taken specimens on numerous occasions in the forested parts of SI by baiting tin cans with molasses and fusel oil (Blatchley, *Orthoptera of Northeastern America*, p. 625). SI is the type locality, and specimens have been found in Clove Valley, in Reed's Valley, and near the Moravian Cemetery.

- C. rebebi** Blatch. Crotona Pk., Bronx, NYC, Sep 24, 1899, *Wat*; Nyack, Je; Ramapo, Oct. **SI**: Generally distributed in the forested area, on sandy ground, and collected in molasses traps, Je, JI, Sep. **LI**: Woodhaven, Aug; Selden, Aug 30-31, 1916, many on sandy roads, etc., and collected with a lantern at night; Coram, Aug-Sep; Yaphank, JI-Oct; Amagansett, Sep; Orient, Sep, *Lath*.

This is the species treated by Rehn and Hebard, 1916, as *C. spinosus* Scud. Blatchley, in his *Orthoptera of Northeastern America* (1920), identifies as the true *spinosus* specimens from Ga and Fla.

- C. uhleri** Scud. **SI**: Richmond, Aug, 1911, a female. A specimen sent to Scudder in 1894 was identified as *uhleri*.

Found in the "Middle States," according to Scudder, 1894.

- C. latens** Scud. Summit of Hook Mt., Nyack, Nov 26, 1916, *Schott*; Allaben, Catskills, Aug, *Dow*; Genesee Co, Je 24, 1916, nymph. "Ithaca and Enfield Falls, (Morse, CU)," see Scudder, 1894.

- C. caecus** Scud. **SI**: Richmond, Clove Val., Je, Aug, two males and one female.

- C. lapidicola** Burm. Saranac L., Sep; Olivera, Sep, 1918, males and females at sugar bait; Taughannock, Oct. This species is reported from Conn (Walden), Mass (Morse), and Ontario as *pallidipes* (Walker), but it seems to be but poorly understood. *C. pallidipes* may be a northern race of *C. lapidicola*.

- C. gracilipes** Hald. Manhattan I., near Inwood, Sep 9, 1905, and Oct 3, 1908, numerous; Bronxville, Aug; Rye, Oct 12, 1917, a female under bark of dead tree; Ardsley, Je, under bark, *Winters*; Croton, J1; Peekskill, Aug, *Bs*; Bear Mt, Aug, *Schott*; West Pt., J1; L. Mahopac, J1 20, 1903, two juvenile females, *HFox*; Olivera, Sep, many at sugar bait; Caywood, Seneca Co, J1; Geneva, Aug; Ithaca, *Comst* (Scudd); Rock City, Je 6, 1915, a female at sugar bait, Je 10-11, two males; Rochester, Deveson. **SI**: Ft. Wadsworth, Sep 23, 1924, found about the foundation of an old house, nymphs, Ap, 1925. **LI**: Gardiners I., Je 14, 1911 (two males), Aug, 1918 (six males and three females).
- C. terrestris** Scud. Adirondacks, Saranac L., Sep; Ithaca, Aug 19, 1885 (Hebard); Batavia, Aug 31, 1913, two males, one female, *Kngt*.
- [*C. stygius* Scudd. and some other species of *Ceuthophilus* that have been reported from adjoining or near-by States, doubtless occur in NY.]

## FAMILY GRYLLIDAE: CRICKETS

## GRYLLUS Linnaeus

- G. assimilis** Fab. **SI**: Immature individuals of the form *pennsylvanicus* Burm. live over winter under stones, etc., and mature in early May, when the males may be heard singing. The ovipositor in this form is short. The form *luctuosus* Serville appears about midsummer from eggs hatched in the spring, and survives until Nov. It has a long ovipositor. Long-winged examples of *assimilis* are often attracted by light. On Sep 26, 1908, a male and a female were seen eating a living *Arphia sulphurea*. They are more commonly vegetable feeders, perhaps from necessity.
- LI**: Form *pennsylvanicus* from Rockaway, Je; Half Way Hollow Hills, J1; Nissequogue, Je; Orient, Je, *Lath*; Yaphank, J1; Gardiners I., Je. Form *luctuosus* from Aqueduct, Hempstead, Fire I., Central Pk., Selden, Yaphank, Amagansett, Gardiners I., Cold Sp. Harb., Southold, Orient, Aug-Sep.
- Away from the coast and at a greater altitude *assimilis* is smaller and darker-colored, and is represented by the form *neglectus* Scudd. Specimens have been examined as follows: West Pt.; Debruce; Callicoon; Olivera; Keene Val., *Not*; Wilmington; Ithaca; W. Danby; Potter Swamp; Conesus L.; Portageville; near Olean.
- G. domesticus** L. West Farms (Akhurst, in *Psyche*, vol. 9, p. 293, 1902). **SI**: This introduced species is usually not common, but is occasionally met with in houses, where it is sometimes regarded as a nuisance. Where there is sufficient heat it may be heard singing in winter, the song being much more rapid than that of *assimilis*. The long-winged form is sometimes found about lights. **LI**: Brooklyn, taken on a sugared tree, Aug 19, 1916; Flatbush, Nov 25, 1909, found in a cellar, *Zab*; Yaphank, J1, 1909, in a house.

## MIOGRYLLUS Saussure

- M. verticallis** Serv. **SI**, Je 17, a fully grown female.

## NEMOBIUS Serville

- N. fasciatus** DeG. (*vittatus* Harr., short-winged form). Manhattan I., Inwood, Oct; Van Cort. Pk.; Rye, Oct; W. Nyack, Aug; West Pt., Sep; Suffern, Sep; Debruce, Sep; E. Jewett, Aug; Olivera, Sep; Adirondacks, Aug; Ithaca, Aug, Oct; Clyde; Batavia, Sep, *Kngt*; Rochester, Aug; Cattaraugus, Sep. **SI**: A common species of both upland and salt meadow. Mature individuals J1-Nov. The long-winged form is often attracted by electric lights. **LI**:

Brooklyn; Aqueduct; Pinelawn; Rockaway; Fire I.; Cold Sp. Harb.; Oyster Bay; Wading R.; Southold; Orient; Selden; Coram; Yaphank; Riverhead; Calverton; Springs; Montauk; Gardiners I., Aug-Oct.

[*N. griseus* E. M. Walker has been reported from Toronto (Ontario), several of the New England States, and Indiana. It should be found in New York State.]

**N. maculatus** Blatch. **SI**, Sep 19, a male and a female, *Ds* (Hebard); **LI**: Flatbush, Sep 30, *Zab* (Hebard).

**N. cubensis** Sauss. **SI**, Aug 22, a female, *Ds* (Hebard).

**N. palustris** Blatch. White Plains, Sep, *Leon*; **LI**: Yaphank, Aug 26, 1916, rather abundant in an old cranberry bog, on raised places among the moss; Southold, Sep 4, 1912, a male and a female.

**N. carolinus** Scudd. Bronxville, Aug; West Pt., Sep; Suffern, Oct; Ramapo, Oct; Catskills, Sep; Ithaca, Oct; Olcott, Aug; **SI**: generally distributed, *Jl-Nov*; **LI**: Farmingdale, Oct; Pinelawn, Aug; Wading R., Sep; Springs, Sep.

#### OECANTHUS Serville

**O. niveus** DeG. SNOWY TREE CRICKET. Ramapo, Oct; West Pt., *Robn*; Middle Hope (NYS); Elmira, Sep, *Diven*; Ithaca, *Jl-Aug* (CU); Geneva; Rochester; Alired; Otto (CU); Ripley (NYS); "It is found all over the State of New York with the exception of forested regions in the northeastern part (B. B. Fulton, 1915). **SI**: Generally distributed, and may be heard singing, especially in gardens among the grapevines, raspberry bushes, and fruit trees, from *Jl* until frost. It sings all night and continues when the temperature is rather low. **LI**: Generally distributed; Brooklyn; Maspeth; Flushing; Central Pk.; Sea Cliff; Long Beach; Smithtown; Wading R.; Greenport; Southold; Coram; Yaphank; Riverhead; Amagansett; Montauk; on Gardiners I. it is probably the most plentiful species of the genus, occurring often in the clumps of bayberry bushes.

**O. angustipennis** Fitch. Bronxville, Sep (Woodr); White Plains, Sep, *Leon*; W. Nyack, Sep; Ithaca, Aug (CU); Rochester, *Deveson*; common in the lake region of the western part of the State (B. B. Fulton, 1915); **SI**: common Aug-Oct, but more of a woodland species than *niveus*; **LI**: Prospect Pk.; Brooklyn; Maspeth, *Ols*; Fire I.; Central Pk.; Cold Sp. Harb.; Bay Shore, *Ols*; Selden; Coram; Yaphank; Riverhead; Promised Land; Calverton; Amagansett; Greenport; Southold; Orient, Nov 1, 1914, in orchard, *Lath*; Gardiners I., Aug.

**O. exclamatoris** Ds. Bronxville, Aug-Oct (Woodr); **SI**: (type locality): Buck's Hollow, Sep; Long Neck, Aug-Sep; Watchogue, Aug; Eltingville, Sep; **LI**: Flushing; Kissena Pk., Aug; Central Pk., Aug-Sep; Cold Sp. Harb., Sep; Selden, Aug; Yaphank, Sep-Oct; Springs, Aug; Smithtown, Aug; Deep Pond, Wading R., Aug; Shelter I., Aug; Southold, Sep; Gardiners I., Aug.

**O. nigricornis** Wlk. Van Cort. Pk., Sep; White Plains, Sep, *Leon*, Var. *quadripunctatus* Beut.: Rye, Oct; Karner, Aug; Onteora Mt., Aug (How); Ithaca, *Jl-Oct* (CU); Rochester, *Deveson*; Otto (CU); Cattaraugus, Sep (CU). **SI**: Common on goldenrods, asters, and other low-growing plants along the edge of the salt meadows as well as inland, Aug-Oct; Huguenot, Oct 3, 1913, a male eating an aphid. Var. *quadripunctatus* Beut.: Watchogue; Long Neck; Tottenville. **LI**: Generally distributed, Aug-Oct; Queens; Maspeth; Flushing; Aqueduct; Rockaway; Long Beach; Fire I.; Pinelawn; Bay Shore, *Ols*; Coram, several on sugared trees; Yaphank; Patchogue; Southold; Orient, *Lath*. Var. *quadripunctatus* Beut.: Aqueduct; Rockaway; Long Beach; Fire

I.; Maspeth, *Ols*; Flushing; Queens; Central Pk.; Pinelawn; Selden; Yaphank; Amagansett; Montauk; Greenport; Southold; Shelter I.; Gardiners I., Aug.

This species is said by B. B. Fulton (1915) to be widely distributed over NY, and var. *quadripunctatus* to be found in most parts of the State with the exception of the northern forested area.

- O. pini** Beut. Karner, Jl-Sep (Felt, NYS). **SI:** As the pines on which this species occurs have nearly all disappeared from the island, its presence is hardly expected. **LI:** Fairly common in places among pitch pines; Central Pk., Aug; Pinelawn, Aug; Coram, Aug-Sep; Yaphank, Jl-Sep; Riverhead, Aug; Promised Land, Sep; Southold, near Great Pond, Sep.
- O. latipennis** Rly. **SI:** Once very common and still occasional on the low sandy ground near Old Place and Watchogue. Found on goldenrods, small white birches, etc., Aug-Oct. **LI:** Bay Shore, Oct, *Ols*; Calverton, Sep, 1910, two females.

#### NEOXABEA Kirby

- N. bipunctata** DeG. Van Cort. Pk., Aug 12; Ramapo Mts. (AM); Ft. Montgomery, *Schott*. **SI,** a few collected in Aug. **LI:** Flushing, Aug, *Bell*; Wyandanch, Sep, *Schott*; Yaphank, Jl, Sep, *Shoe*; Promised Land, Sep, *Ds*; Southampton, Aug, *Zab*; Amagansett, Sep; Wading R., Jl, nymph; Shelter I., Aug 3, nymph; Orient Pt., Jl, nymphs; Gardiners I., Aug.

The range of this species is more to the southward, and it probably does not occur in the northern part of the State.

#### CYCLOPTILUM Scudder

- C. squamosum** Scud. **LI:** E. Marion near Orient Bay, Aug 2, 1913, two well-grown nymphs under log, *Ds* & *Eng*.

#### ANAXIPHA Saussure

- A. exigua** Say. **SI:** Formerly not uncommon in rank vegetation bordering the salt marshes, Aug, Sep. In Aug and Sep, 1901, it was found in considerable numbers in the woods near Egbertville, but of late years no specimens have been collected on the island. **LI:** Maspeth, Flushing, *Ols*; Sea Cliff, Oct (AM), and 19 specimens, *Bks* (CU).

#### PHYLLOSCYRTUS Guérin

- P. pulchellus** Uhl. **SI:** once fairly abundant at Old Place and Watchogue, Jl-Oct, but none have been collected recently.  
In Proc. Ent. Soc. Phila., vol. 2, p. 544, Uhler records this species as "taken near the city of New York."

#### HAPITHUS Uhler

- H. agitator** Uhl. **SI:** Ward's Pt.; Tottenville, a female, Sep 21, 1902. This is the only record. It is a common species on Sandy Hook, NJ. **LI:** Fire I., opposite Bay Shore, Aug, 1917, *Henry Thurston*.

#### GRYLLOTALPA Latreille

- G. hexadactyla** Perty (*borcalis* Harr.). West Pt., Sep, *Robn*; Kingston, Dr. C. W. Crispell (Rept. NY State Ent., 1888); Albany, Oct (Lint-NYS); Honeoye Falls, Aug 26, nymph, *Devson*. **SI:** Found in all rural places, in moist ground,



where it may be heard singing its *krerr, krerr, krerr* from late J1 until Oct. The long-winged form *columbia* Scud. is occasionally attracted to light. Rarely individuals are found running about on roads, etc., during the day. **LI:** Yaphank, Sep, four nymphs 5 mm. long, which would probably pass the winter in an immature state; Calverton, Sep; Amagansett, Sep; Gardiners I., Je 13, 1911, nymph, Aug 7, 1918.

[*G. gryllotalpa* L. EUROPEAN MOLE CRICKET. This imported insect has been reported from Rutherford, NJ, as well as from Mass, so it may be looked for in NY.]

#### TRIDACTYLUS Olivier

**T. apicalis** Say. Ithaca, J1, *Pearce* (Scudd). **SI:** Old Place, Je, Sep, on damp ground. **LI:** Rockaway Beach, Je, *Eng*; Deep Pond, Wading R., May 31, mature individuals; Fort Pond, Montauk, Sep.

### FAMILY ACRIDIDAE: SHORT-HORNED GRASSHOPPERS

#### TRYXALIS Fabricius

**T. brevicornis** L. **LI:** Ravenswood Swamp, Long Island City, collected many years ago (Bt).

#### PSEUDOPOMALA Morse

**P. brachyptera** Scud. **SI:** Watchogue, Sep 17, 1911, *Grossbeck*; Old Place, on salt meadow, Sep 8 and 13, 1920, two females, one caught in the web of a spider (H. H. Johnson). **LI:** Central Pk., Aug 13, 1913 (Fulton); Bay Shore, J1, 1915, *Ols*; Orient, J1 1, 1917, a nymph, on sandy beach, *Lath*; Cedar Beach on Gardiners I., Aug 28, 1918, often in clumps of stunted bayberry bushes.

#### ERITETTIX Bruner

**E. simplex** Scud. **LI:** Top of High Hill, West Hills, Je 21, 1917, a considerable colony; Yaphank, May 28, 1911, J1 8, 1916, several in thick grass; Wading R., May 30, 1913, colony on hill near the great split rock in a one-time asparagus bed, neglected and overgrown; Bellport, Je 23, 1913, *Nic*.

#### CHLOEALTIS Harris

**C. conspersa** Harr. Bronxville, J1-Sep. *Woodr*; Ft. Montgomery, Oct 20, *Schott*; Callicoon, J1; E. Jewett, Aug; Mt. Whiteface, J1; Ithaca, J1-Aug (CU); Rochester, J1, *Deveson*; Portageville, Je, three nymphs; Otto (CU). **SI:** from early J1 to the middle of Sep. On Sep 15, 1888, a female was found laying eggs in an old fence rail. The males stridulate while sitting on the ground. At one time not uncommon in Clove Valley, but of late years found principally on the low ground about Watchogue; Moravian Cemetery, J1; near Egbertville, J1 21, 1922, a male. **LI:** Half Way Hollow Hills, J1; Wading R., Je-Aug, at both Deep Pond and Long Pond; Shelter I., Aug; Orient, J1, *Lath*; Yaphank, J1, Sep; Riverhead, Aug; Patchogue, J1; Calverton, Sep; Montauk, Sep; Gardiners I., J1-Aug.

#### ORPHULELLA Giglio-Tos

**O. pelidna** Burm. Van Cort. Pk., Bronx, Aug; White Plains, Sep; W. Nyack, Aug; E. Jewett, Aug; Ithaca, J1-Aug (CU); Rochester, J1, *Deveson*. **SI:** Generally distributed, J1-Oct. One female at light, J1 16, 1912. Occurs in both dry and moist situations, and is often common along the edge of the salt meadows. Males generally brownish, many green females, also some females

- with elytra purplish. **LI:** A common species and found from Brooklyn to Orient and Montauk; also on Fire I. and Gardiners I. JI-Sep. Sometimes found in very dry situations.
- O. olivacea** Morse. **SI:** Arrochar, Oakwood, Old Place, Watchogue, JI-Sep. Often very common on the salt meadows. A long series does not contain any green males, which exist, however, though rare. The upper parts of the females may be of any shade between brown and green. **LI:** Ravenswood (Psyche, vol. 8, p. 318-Morse); Central Pk., Sep; Sands Pt., Sep, *Bs*; Orient, on salt meadow, Sep, *Lath*; Gardiners I., Aug 19, 1918, a male.
- O. speciosa** Scud. Van Cort. Pk., Aug; W. Nyack, Aug; Debruce, Sep; E. Jewett, Aug. **SI:** Generally distributed, but more of an upland species than either of the two last named, Aug-Sep. Many of the females are partly green in color. **LI:** Maspeth, JI, *Ols*; Central Pk., Sep; Southold, Sep; Amagansett, Aug; Montauk, Sep; Gardiners I., JI-Aug.

## DICHROMORPHA Morse

- D. viridis** Scud. Bronxville, Aug-Oct (Woodr); Ramapo, Oct; W. Nyack, Sep; West Pt., Aug-Sep (Robn); Oliverea, Sep; Ithaca, JI-Aug (CU). **SI:** A common species; mature individuals from JI-Oct. Both sexes may be either green or brown. The female is usually short-winged, but one with long wings and tegmina was found on the sidewalk at St. George, Aug 16, 1908. **LI:** JI-late fall: Rockaway; Aqueduct; Maspeth; Flushing; Central Pk.; Wyandanch; Half Way Hollow Hills; Pinelawn; Coram; Selden; Yaphank; Patchogue; Riverhead; Center I.; Smithtown; Wading R.; Greenport. At the last-named place Mr. Latham found it Nov 1, 1914, in woods.

## CLINOCEPHALUS Morse

- C. elegans** Morse. **SI:** Usually found on or near the salt meadows; Oakwood, Aug; Ward's Pt., Tottenville, Sep; Watchogue, Sep; Price's Meadow I., Sep. A long-winged female was found on the sidewalk at St. George, Aug 27, 1914, and a male on the turnpike near Silver L. Pk., Oct 13, 1917. **LI:** The type came from Ravenswood (Bt) (Psyche, vol. 7, p. 402, 1896, and Proc. Acad. Nat. Sci. Phila., Mar, 1915, p. 99).

## CHORTHIPPUS Fieber

- C. curtippennis** Harr. Bronxville, Aug-Sep, *Woodr*; Ft. Montgomery, Oct 20, *Schott*; West Pt., Aug-Sep, *Robn*; Debruce, Sep; Oliverea and Slide Mt., Sep, both long- and short-winged males and females; Onteora Mt., Oct (How); Wilmington, JI; Ithaca, JI-Aug, Oct (CU); Otto (CU); Rochester, Sep (Deveson). **SI:** Generally distributed, and found in low meadows; often occurring on the borders of the salt meadows. JI-Oct, inclusive. The males stridulate while sitting on the ground. **LI:** Aqueduct, Sep; Rockaway, JI, *Schott*; Maspeth, Aug, *Ols*; Flushing, Sep, *Bell*; Wading R., Aug-Sep; Riverhead, Aug, salt meadow.

## STETHOPHYMA Fischer

- S. lineatum** Scud. Colden L., Aug; Essex Co, JI (NYS); Ithaca, JI-Aug (WC Thro-CU). **LI:** Not uncommon on the border of the salt meadow near the upper part of Wading R., Aug-Sep, 1922.
- S. gracile** Scud. Saranac L., Sep; Adirondacks, Aug (NYS).
- S. platypterum** Scud. White Plains, Aug, 1923 (JMFarley, Jr).

## ARPHIA Stål

- A. xanthoptera** Burm. Bronxville, Aug-Oct, *Woodr*; W. Nyack, Aug; Ramapo Mts. **SI**: Generally distributed from St. George to Tottenville. A late-appearing species attaining full growth in Aug and continuing until Oct. Makes a crackling noise in flight. **LI**: Has been found all over the island in Aug-Sep. Maspeth, *Ols*; Central Pk., Aug 12, just matured; Cold Sp.; Smithtown; Selden; Coram; Yaphank; Southold; Orient, *Lath*; Amagansett; Springs; Montauk; Gardiners I.
- A. sulphurea** Fab. White Plains, Je-Jl; Ft. Montgomery, May; West Pt., Je; Croton, Jl; Oliverea, Je; Elmira, Je, *Diven*; Ithaca, May-Jl, also CU; Conesus L., Je; Rochester, Jl, *Deveson*. **SI**: Generally distributed. Arrives at maturity about the middle of May from over-wintering nymphs. A few survive until the first of Aug or a little later. **LI**: Generally distributed. Central Pk., Jl; Massapequa, May; West Hills, Je; Half Way Hollow Hills, Jl; Nissequoque, Je; Kings Pk., Je, *Bell*; Yaphank, Je-Jl, Sep 3 latest date; Riverhead, Aug; Wading R., May-Aug.

## CHORTOPHAGA Saussure

- C. viridifasciata** DeG. Nyack, Je; Ft. Montgomery, May; West Pt., Je; Ramapo, Je; Pine L., Je; Albany (NYS); Axton (M&H); Mt. Whiteface, Wilmington, Je; Baldwinville, Je (CU); Aug; Spencer, May (NYS); Elmira, Je, *Diven*; Ithaca, May-Jl (CU); Rock City, Je; Portageville, Je; Bergen, *GM Gillette*; south shore of L. Ontario, Je. **SI**: Generally distributed, and overwinters in nymphal stages. Mature individuals from Ap-Nov; also nymphs on Nov 6. Found laying eggs May 17; pair mated Jl 23; recently matured Aug 27 and Sep 12. Crackles wings in flight. Males usually brown or brownish in color; females green, or brown and green. Occasionally a green male is found, and more frequently a brown female. Sometimes the pronotum is reddish and the general coloring very beautiful. **LI**: Generally distributed; adults from May-fall, and nymphs at any season. Rockaway Beach, in wash-up; Maspeth; Baldwin; Pinelawn; Wyandanch; Half Way Hollow Hills; Nissequoque; Wading R.; Yaphank; Orient, *Lath*; Riverhead; Gardiners I.

## ENCOPTOLOPHUS Scudder

- E. sordidus** Burm. Inwood, Manhattan I., Sep, *Schott*; Rockland L., Oct; West Pt., *Robn*; DeBruce, Sep; Albany (NYS); Oliverea, Sep; Essex Co (NYS); Whitehall, Washington Co, Oct (Not); Elmira, Aug, *Diven*; Ithaca, Aug-Sep (CU); Holcomb, Sep (Kngt); Batavia, Oct (Kngt). **SI**: Generally distributed. Matures in Aug and found as late as Nov 27 at Tottenville. Laying eggs in path, Ft. Wadsworth, Nov 6. Crackles its wings in flight. **LI**: Flatbush, Oct, *Zab*; Flushing, Oct, *Bell*; West Hills, Sep; Patchogue, Sep; Amagansett, Sep.

## CAMNULA Stål

- C. pellucida** Scud. E. Jewett, Aug, common; Mt. Whiteface, Jl, common; Keene Val., Aug-Sep, *Not*; Saranac Inn, *Ndm*; Jay, Jl (WEBritton in Jour. Econ. Ent., 1911, p. 545); McLean, Aug, *Sib*; Ithaca, Aug (CU).

## PARDALOPHORA Saussure

- P. apiculata** Harr. Bronxville, May, *Woodr*; Ramapo, May; Nyack, Je; Croton-on-Hudson, May; Albany, May-Je (NYS); Elmira, May, *Diven*; W. Danby, May; Ithaca, May; L. Keuka, Je. **SI**: This beautiful insect, with hind wings

partly red, used to be an ornament to the overgrown fields of the island, but it appears now to be extinct. The last one seen by the writer was a male at Dongan Hills, May, 1909. It passed the winter as a nymph and matured in the spring. A few survived until J1. On May 27, 1900, a female was found laying eggs. **LI:** Queens, May, *Schott*; Jamaica, May; Pinelawn, Je; West Hills, Ap 17, 1915, an early date; Half Way Hollow Hills, May, Wyandanch, May, *Schott*; Nissequogue, Je; Baldwin, May; Bellport, Je, *Nic*; Coram; Wading R., May-Je; Yaphank, Je.

#### DISSOSTEIRA Scudder

- D. carolina** L. This species is not only found over the entire State of NY, but occurs over the greater part of the U.S. Some of the more northern and western state records are: DeBruce, Sep; Callicoon, J1; Oliverea, Sep; Keene Val., Aug-Sep, *Not*; Elmira, Je, Aug, *Diven*; Ithaca, J1; Batavia, J1-Aug, *Kngt*; Buffalo, J1. **SI:** Generally distributed. Mature individuals found from Je-Nov. The males are the first to mature; some of the records are Je 20, 1885, Je 28, 1887, and Je 25, 1921. A male was found attracted by light J1 9, 1912, and two J1 16, 1912. They are often found dead on low bushes, etc., having been killed by the fungus *Empusa*. This is the "hovering grasshopper," the males sometimes poising in mid-air a few feet from the ground. Their hovering, however, is not sustained as in certain Diptera. **LI:** Generally distributed all over the island from Brooklyn to Orient, Montauk, and Gardiners I. Occurs in numbers even on the seashore, and in the Bulletin of the Brooklyn Ent. Soc., Ap, 1913, there is an account of "A Plague of Carolina Grasshoppers at Long Beach, L. I., in 1912." It is sometimes drowned in the ocean and washed ashore on Rockaway Beach.

#### SPHARAGEMON Scudder

- S. bolli** Scud. Van Cort. Pk., Aug; Callicoon, J1; DeBruce, Sep; Ellenville; E. Jewett, Aug; Ithaca, J1-Aug (CU); McLean, Aug-Sep, *Sib*; Batavia, J1, *Kngt*. **SI:** This woodland species is found from Je-Oct and is generally distributed. It crackles its wings in flight. A male was found attracted to light, J1 16, 1912. **LI:** Aqueduct, J1; Central Pk., J1-Sep; Pinelawn, Aug-Sep; West Hills, Sep; Selden, Aug-Sep; Coram, Aug-Sep; Smithtown, Aug; Wading R., Aug; Southold, Sep; Yaphank, J1-Sep; Bay Shore, J1, *Ols*; Bellport, Aug (*Nic*); Patchogue, Sep; Riverhead, Aug; Calverton, Sep; Amagansett, Sep; Montauk, Aug.
- S. saxatile** Morse. Ramapo, Sep; W. Nyack, Aug; Ft. Montgomery, J1; West Pt., Sep. Found on rocky areas, sometimes of small extent.
- S. collare wyomingianum** Thomas. **SI:** At one time well distributed on the sandy areas of the island from Richmond Valley to Mariners Harbor, but now much more restricted. It is an insect of overgrown sandy fields and open sandy woodland. It has been found plentiful at Richmond Valley in Sep, and near Western Ave., Mariners Harbor, in Aug, also Oct 9, Oct 15, and Nov 6. Other localities are Long Neck, Sandy Br., Woodrow, Bogardus Corners, Kreischer-ville, and Tottenville.
- Professor Morse states that typical examples of *wyomingianum* occur on SI. It has not been found on LI.
- S. collare scudderi** Morse. **LI:** Central Pk., J1-Sep, both to the north and to the south of the railroad track, and also on the undisturbed parts of Hempstead Plains; Montauk, on the grassy hills, also near Fresh Pond, Aug 26 and 27, 1917 (Eng, Ds); Gardiners I., very common on the grassy hills near the monument reading "Capt. Kidd's Treasure was buried in this hollow and



recovered in 1699." The reddish brown form of both males and females is much less common at Central Pk. and on Gardiners I. than dark fuscous examples.

## SCIRTETICA Saussure

- S. marmorata** Harr. **SI:** Tottenville, Sep; Rossville, Aug; Sand Ridges, Richmond Valley, Sep; Watchogue, Sep-Oct. On Sep 20, 1919, three males and one female were collected near the corner of Hughes Ave. and Lambert's Lane, but this beautiful species seems now nearly extinct on the island. Both sexes crackle their wings in flight. **LI:** Generally distributed on the sandy parts of the island. Central Pk., Aug; Cold Sp. Harb., in a sandy field, Sep; Smithtown, Aug; Selden, Aug-Sep; Wading R., Aug; Yaphank, Jl, Sep; Patchogue, Sep; Riverhead, Aug; Calverton, Sep; Amagansett, Sep; Promised Land, Sep; Greenport, Aug; Shelter I., Aug; Orient, Aug, Nov, *Lath.*

## PSINIDIA Stål

- P. fenestralis** Serville. **SI:** On sandy ground and on the up-beach of the seashore. Mature individuals from Jl-Oct. Arrochar; South Beach; Oakwood; Crooke's Pt.; Great Kills; Richmond Valley; Tottenville; Kreischerville; Rossville; Bogardus Corners; Price's I.; Long Neck; Watchogue. Irrespective of the sex, the central part of the hind wings may be red, yellow, or some intermediate color. **LI:** Generally distributed, and found wherever there are sandy areas. Jl-Oct. Aqueduct; Coney I.; Rockaway; Fire I.; Patchogue; Yaphank; Riverhead; Calverton; Amagansett; Springs; Montauk; Bayville; Cold Sp.; Center I., in Oyster Bay; Selden; Coram; Wading R.; Southold; Greenport; Shelter I.; Orient; Gardiners I.

## TRIMEROTROPIS Stål

- T. maritima** Harr. **SI:** On the beach from the Fort at the Narrows to Tottenville. Mature individuals as early as Jl 1; they continue into Oct. On Jl 16, 1912, a female was found under an electric light at Egbertville, about one and a half miles from the beach or any other sandy area. **LI:** Generally distributed along the sandy beach on the south shore, and occasionally on sandy areas farther inland. Jl-Oct. Coney I.; Barren I.; Rockaway Beach; Fire I.; E. Quogue; Amagansett; Bayville; Sea Cliff (Bks); Wading R., both along the beach and on the sandy shore of Long Pond about two miles inland; Southold; Greenport; Shelter I.; Orient, Nov 10, 1914, *Lath*; Gardiners I.; at Riverhead, Aug, 1917, individuals with pinkish hind tibiae were collected.

## CIRCOTETTIX Scudder

- C. verruculatus** Kby. L. Mohonk, Sep, *Eng*; Karner, Jl (NYS); Onteora Mt., Aug, *How*; E. Jewett, Aug; Keene Val., Aug, *Not*, Sep, *Eng*; Wilmington, Jl; Mt. Whiteface, Aug (Kngt); Chateaugay L., *Bowditch* (Morse); Little Valley, Sep, *Sherm.*

## SCHISTOCERCA Stål

- S. americana** Drury. **SI:** Our largest grasshopper. Not known to breed on the island; all individuals recorded supposed to be adventive from the South. Occasionally found in May, but more often in Sep and later. On Dec 23, 1894, a male was collected on Todt Hill, and on Dec 28, 1907, a female at Woodrow. The last record is Nov 27, 1923, of a male collected on Todt Hill, it having flown from the ground into a tree, as they often do when disturbed. **LI:** Aqueduct, *Schott.*

- S. alutacea** Harr. and **S. alutacea** form **rubiginosa** Scudd. The striped form, W. Nyack, Aug; the brown form, White Plains, Sep. The latter is reported also from Sparkill, Rockland Co. (Baird). **SI**: The striped form, greenish in color with a lighter dorsal stripe, is found in moist meadows among rank vegetation: Old Place; Watchogue; Long Neck; Richmond; Arrochar; Richmond Valley. The all-brown or brownish form, *rubiginosa*, is confined more to dry areas: Richmond Valley; Kreischerville; Long Neck; Watchogue. Aug 5–Oct 20. **LI**: The striped form, Central Pk.; Wyandanch; Yaphank; Wading R.; Riverhead. The all-brown form, which is the more common, Rockaway; Aqueduct; Jamaica; Central Pk.; Wyandanch; Cold Sp.; Coram; Yaphank; Smithtown; Wading R.; Riverhead; Calverton; Amagansett; and Montauk. **Jl**–Sep.

#### HESPEROTETTIX Scudder

- H. brevipennis** Thomas. **LI**: This beautiful pink and green species has usually been found among sweet fern, Comptonia, though it occurs also among other plants. On **Jl** 27, 1909, a large colony was found at Yaphank in an almost circular clump of Comptonia about 36 feet in diameter. On Aug 31, 1912, it occurred in the same locality chiefly on goldenrod flowers, though also on sweet fern. Other localities are: Central Pk., Aug; Coram, Aug; Riverhead, Bald Hill, Aug; Bellmore, Calverton, Sep, *Eng*.

#### DENDROTETTIX Riley

- D. quercus** Pck. **LI**: on Sep 3, 1912, a single short-winged male was collected at Yaphank. This is the only record from NY of this sometimes very destructive grasshopper which is known on occasion to defoliate large forest trees.

#### PODISMA Latreille

- P. glacialis** Scud. and form **variegata** Scud. Summit of Mt. Whiteface, **Jl**, nymphs (Ds), adults, Aug 22, *Kngt*, and Sep, *Lg*; L. Placid, Sep, on hazel bush, *Eng*; summit of Mt. Marcy, Aug; Saranac Inn, "on bushes in openings in the woods", *Ndm*; Slide Mt., Sep. The considerable series from Slide Mt. approach *variegata*, but the antennae in the male are not longer than the hind femora. *Variegata* is regarded as a variety by Morse. In his *Review of the Melanopli*, Scudder reports *glacialis* from Mt. Marcy and Chateaugay L., and describes *variegata* from Ithaca and Enfield Falls.

#### PAROXYA Scudder

- P. clavuliger** Serville. Van Cort. Pk., Aug; Pine I., Sep, *Brb*. **SI**: Found in grassy swamps, and generally distributed; also along the edge of the salt meadows. **Jl**–Nov. **LI**: Maspeth, Sep; Flushing, Sep; Aqueduct, Sep; Canarsie, Sep, *Ols*; Riverhead, Aug.

#### MELANOPLUS Stål

- M. viridipes eurycerus** Hebard. Groton, **Je** 11, 1914, *EAC* Chapman, one male, three females (Ds); Mix Cr. Valley, Cattaraugus Co, **Je** 11, 1915 (Ds, Bdy), two males, one female (Ds); Rock City, **Je** 6, 1915 (Ds, Bdy), one female (Ds); Seneca Jct., **Je** 7, 1915 (Ds), two females (Ds); Ithaca, one female (Hebard); W. Danby, May 30, 1915 (Ds), one male (Ds); (Hebard in Trans. Am. Ent. Soc., vol. 46, p. 396, 1920). Slaterville, May 30, 1925, *Cy&Seeley*.

- M. calloplus** Hebard. West Pt., Je. 14, 1914, four males, seven females (Ds) (Hebard in Trans. Am. Ent. Soc., vol. 46, p. 401, 1920).
- M. tribulus** Morse. Ramapo Mts., Oct. **SI**: a wingless species of the woodlands found Jl-Sep Clove Valley; Reeds Valley; Graniteville; near Lambert's Lane, Watchogue; Richmond.
- M. mancus** S. I. Smith. Kaaterskill High Peak, Catskills, 3800 ft. (Morse). A number have been collected in Sussex Co, northern NJ, so it should be sought between there and the Catskills (Ds).
- [*M. dawsoni* Scud. Reported from Toronto, Ontario (Wlk), Brunswick, Me (Pck), Manchester, NH (Morse), and Tobyhanna, Pa, so its discovery within NY is no doubt a matter of more thorough collecting (Ds).]
- M. scudderi** Uhler. Rockland L., Oct; Danby Hill, Aug, *OEPearce* (CU); Ithaca, *Comst* (Scudd). **SI**: More common of late years with the spreading of the beard grass consequent to the drier condition of the land. It matures late and is generally found from Aug-Oct. A male was collected in 1899 as late as Dec. 2. From Fort Hill, St. George, to Tottenville, in suitable localities. **LI**: Aqueduct, Oct; Pinelawn, Aug-Sep; West Hills, Sep; Selden, Aug; Coram, Aug-Sep; Yaphank, Aug-Sep; Patchogue, Sep; Calverton, Sep; Riverhead, Aug.
- M. fasciatus** F. Walker. White Plains, Je, *Farley*; West Pt., Je 14 and 16, and Crow's Nest Mt., Je 5, an early date; Axton (M&H); Mt. Whiteface, Jl; Rock City, Jl, *Kngt*; Chipmunk Swamp, Vandalia, Je. **SI**: Clove Valley, on dry hillside, Jl 20, 1914, three males and two females, Aug 14, 1920, two males and one female; Watchogue, on sandy ground among huckleberry bushes, Oct 12, 1918, one male. **LI**: Common on some of the dry and sandy parts of the island. It matures early and has been found from Je 14-Sep. Central Pk.; Massapequa; Pinelawn; Wyandanch; Cold Sp.; Selden; Coram; Yaphank; Wading R.; Riverhead; Calverton.
- M. mexicanus atlanis** Rly. Callicoon, Jl; Karner, Jl (NYS); E. Jewett, Aug; Mt. Marcy, Jl, *Beq*; Keene Val., Aug, *Not*; Wilmington, Jl; Mt. Whiteface, top, Jl-Aug, *Kngt*; Ithaca, Sep, *Kngt*; Batavia, Jl, *Kngt*; Rock City, Jl, *Kngt*; Rochester, Jl, *Deveson*. **SI**: Generally distributed, Jl-Oct. **LI**: Aqueduct; Half Way Hollow Hills; Selden; Wading R.; Yaphank; Riverhead; Shelter L.; Orient; Gardiners I. Jl-Sep.
- M. impudicus** Scud. **LI**: In the pine-barren areas. Near Selden, Aug 30, 31, and Sep 1, 1916, three males and one female. Sandy ground north of Coram, Pennequid Barrens, Aug 17, 19, 1920, and Sep 17, 1920, eight males, two females. Deep Pond, Wading R., Aug 7, 1912; Long Pond, Wading R., Sep 3, 1919, and Je 28, 1922.
- M. femur-rubrum** DeG. RED-LEGGED LOCUST. Rye; W. Nyack; DeBruce; Catskills; Adirondacks; Karner; Geneva; Ithaca; Batavia; Otto. **SI**: Generally distributed and common. Also on the salt meadows. Early Aug until frost. Has been found in numbers as late as Nov 27. **LI**: Probably the most common species on the island, and generally distributed. Found on Gardiners I.
- M. borealis** Fieb. Abundant in stagnant bog, Oswegatchie, Je. 1925, *Hood* (Caud). Hebard states that the northeastern specimens belong to the race *junius* Dodge.
- M. confusus** Scud. (*minor* Scud.). Van Cort. Pk., Aug; White Plains, Je, *JMFarleyJr*; Nyack, Je; Pine I., Je; Croton-on-Hudson, Je; West Pt., Je; Olivera, Je; Allaben, Aug, *Dow*; E. Jewett, Aug; W. Hebron, Je, *Lg*; Mt. Whiteface, Jl. **SI**: Clove Valley, Je 24, 27; Ocean Terrace, Je 24; Tottenville, Je 14, Jl 23. **LI**: Wyandanch, Jl; Half Way Hollow Hills, Jl; Yaphank, Je-Jl, Sep; Wading R., at both Long and Deep Ponds, Je-Aug.

- M. keeleri luridus** Dodge. E. Jewett, Aug; Johnstown, Sep (NYS); Ithaca, Oct, *EOPearce*. **SI**: Richmond Valley, Sep 2; Watchogue, in a barren sandy field, Aug-Oct, but not found in recent years. On Sep 17, 1887, two males and two females were collected at this locality and a note was made that they were plentiful. **LI**: Generally distributed, Aug-Sep: Central Pk; Pinelawn; Wyandanch; Cold Sp.; Selden; Coram; Smithtown; Wading R.; Yaphank; Patchogue; Riverhead; Calverton; Amagansett; Promised Land; Montauk.
- M. differentialis** Thomas. On Aug 30, 1924, a male was found in the salt meadow among rank vegetation near Old Place on the north shore of **SI**. This was the first record for the State (Journ. N. Y. Ent. Soc., Dec, 1924). Now well established at Old Place.
- M. bivittatus** Say. Ft. Washington Pk., Manhattan I., Aug; Bronx Pk.; Hastings, JI, *Joutel*; Croton-on-Hudson, JI; West Pt., Aug, *Robn*; Debruce, Sep; Callicoon, JI; Slide Mt., Sep; E. Jewett, Aug; Albany, JI (NYS); Wilmington, JI; Cranberry L., JI (H-Mus. Zoo. U. Mich.); Ithaca, JI-Sep (CU); Rochester, JI-Aug, *Deveson*; Batavia, JI-Aug (Kngt). **SI**: Common in both dry and moist situations; most plentiful JI-Aug, but continuing into Oct. **LI**: Generally distributed, Je-Sep. Aqueduct; Rockaway; Fire I.; Maspeth, *Ols*; Flushing; Hempstead; Central Pk.; Pinelawn; Coram; Selden; Yaphank; Wading R.; Riverhead; Southold; Orient; Amagansett; Montauk; Gardiners I. An early date was a mature male, Deep Pond, Wading R., Je 26, 1913.
- M. punctulatus** Scud. Ellenville, Sep, *Bt*; Ithaca, Aug Oct, *Cy*, *OEPearce* (CU). **SI**: Rare in recent years. Found in Aug, Sep, Oct, usually on pines but sometimes on oaks. Sep 23, 1893, a male in grounds of the August R. Grote homestead, Egbertville, where many pines had been planted by the naturalist's father. Aug and Sep, 1899, a number near Richmond, mostly on oaks; Oct 8, 1911, a female on a white pine in the Moravian Cemetery; Eltingville, Sep 27, 1922, a male. **LI**: Cold Sp., Sep; Coram, Aug-Sep, some discovered feeding at night on pitch pines; Yaphank, Sep.

## FAMILY ACRYDIIDAE: THE GROUSE OR PYGMY LOCUSTS

## NOMOTETTIX Morse

- N. cristatus** Scud. Mosholu; White Plains, JI; W. Nyack, Sep; Ramapo, May-Je; Suffern, May, *Bell*; Pearl R., May, *Wat*; Rye, Oct; Hastings, *Joutel*; Haverstraw, Oct, *Nic*; Ft. Montgomery, May, JI; West Pt., May 9, long-winged female, Je; Callicoon, JI; Oliverea, Je, nymph; Ithaca, Aug-Sep (CU); Rock City, Je, JI 5, one female, long-winged form; Conesus L., Je. **SI**: Mature individuals in every month from Ap to Oct. Specimens with long pronotum and wings are rare. **LI**: Generally distributed and collected from Ap-Oct; nymphs found in JI-Sep. Forest Pk. (Hebard); Central Pk.; Massapequa; Pinelawn; Wyandanch; Huntington, *Schott*; Cold Sp. Harb.; Coram; Kings Pk.; Wading R.; Baiting Hollow, *Cy*; Yaphank; E. Quogue; Riverhead; Calverton; Amagansett; Promised Land; Gardiners I.

## ACRYDIUM Geoffroy

- A. granulatum granulatum** Kby. West Farms, Mar, *Joutel*; W. Nyack, Mar, *Bcq*; Pine I., Sep, *Brb*; Saranac Inn, *Nam*; Saranac L., Sep; Mt. Whiteface, 22 individuals found on summit, JI 10-13, 1914; Keene Val., Aug, *Not*; McLean, May; Ithaca, Ap-May (CU); Tarbel, Je; Portage, May, *Kngt*; Batavia, May-Je, Sep, *Kngt*. **SI**: Rare; adults found from Mar-Oct. Buck's Hollow, border of pond, May 20, 1920 (Bs). **LI**: Brooklyn, Ap 17, 1915 (Shoe); North Beach, Ap 1, 1917, *Schott*.



- A. ornatum** Say. Croton-on-Hudson, May; Slide Mt., Je, *Shoe*; Albany, J1 (NYS); Axton, Je (M&H); Cascade L., Adirondacks, Aug; Keene Val., Aug, *Not*; Mt. Whiteface, J1, a long-winged male found on summit; Syracuse, May (H-Mus. Zoo. U. Mich); Montour Falls, Oct (Cy); Ithaca, Ap (Bks), Oct, *Kngt*; Rochester, Sep *Deveson*. **SI**, Ap-May, Aug. A male sent to Scudder was identified as his variety *triangulatum*. **LI**: Brooklyn, *Eng*; Rockaway, Aug, *Woodr*; Central Pk., Sep; Pinelawn, Je; Calverton, Sep.
- A. acadicum** Scud. (*hancocki* Morse). Axton, Je, *M&H* (Morse). Blatchley regards *hancocki* as a variety of *ornatum* Say, but it is placed as distinct by Morse in his *Orthoptera of New England*. Hebard states that this species should be known under the name *acadicum* Scud.
- A. arenosum angustum** Hancock. Manhattan I., Beaver St., NYC, Ap 26, 1915; Van Cort. Pk., May; White Plains, May-Je, *Bno*; Nyack, Je; W. Nyack, Ap (Bs); Ramapo, May (*Joutel*); Pearl R., May, *Wat*; Ft. Montgomery, J1; West Pt., Je 4, 1916, just matured; Debruce, Sep; Ithaca, Coy Glen, May-Je; Tarbel, Je; Egleston's Glen, L. Keuka, Je; Genesee Co, Je; Rock City, Je-J1 (*Kngt*, *Ds*). **SI**: Collected from Mar-Oct. Less common in recent years. **LI**: Rockaway Beach, Oct 5, 1912, and Oct 12, 1918, *Schott*; Wyandanch, May; Cold Sp., *Eng*; Orient, J1, *Lath*.

## NEOTETTIX Hancock

- N. femoratus** Scud. **SI**, Je, Aug, two males. More common southward.

## PARATETTIX Bolivar

- P. cucullatus** Burm. Manhattan I., Je; Croton-on-Hudson, Je-J1; Ft. Montgomery, May, J1 (*Schott*, *Ds*); West Pt., Je; Callicoon, J1; Ithaca, J1, Sep (CU); Tarbel, Je 1, 1915, 31 specimens on mud flat; Portage, Je, *Kngt*; Batavia, J1, *Kngt*; Rochester, Sep, *Deveson*; Sylvan Beach, Oneida Co, Je, *Not*; Lowville, Je, *Not*.

## TETTIGIDEA Scudder

- T. lateralis parvipennis** Harr. White Plains; Rye, Oct; Hastings, Je, *Joutel*; Nyack, Je; W. Nyack, Sep; Ramapo, May, *Joutel*; Croton-on-Hudson, May-J1; Ft. Montgomery, May, *Joutel*; West Pt., May, *Robn*, Je; Callicoon, J1; Olivera, Je, Sep; Saranac Inn, *Ndm*; Wilmington, J1; Keene Val., Je, Sep, *Not*; Mt. Whiteface, top, J1 10 and 13, 1914; Ithaca, Aug, Sep (CU); McLean, May; Tarbel, Je 1, 1915, 19 examples, long- and short-winged individuals paired together; Potter Swamp, Yates Co, Je; Rochester, J1, *Deveson*; Honeoye Falls, Je 26, 1916, 17 examples, 5 pairs; Batavia, Je-J1 (*Kngt*, *Ds*). **SI**: Generally distributed; collected from Ap-Oct, and known to hibernate in the mature state. Long-winged form found at St. George on sidewalk, Oct 6, 1916, and Oct 10, 1919. **LI**: Rockaway, Je, Oct, *Eng*, *Schott*; Pinelawn, Je, Sep; Wyandanch, May-Je, Sep, Dec, *Ds*, *Schott*; Melville, Oct, *Schott*; Sands Pt., Sep, *Bs*; Bellport, Aug, *Nic*; E. Patchogue, Sep; Yaphank, Aug 26, 1915, 19 individuals, some immature; Springs, Sep; Montauk, Aug 25, nymph; Orient, Oct 10, on salt meadow, *Lath*; Gardiners I., Aug.
- The form *acuta* Morse, with the anterior margin of the pronotum produced into an acutely pointed process, was described from "NY" (*Journ. N.Y. Ent. Soc.*, Mar, 1895), and has been taken on **SI**, Ap (*Ds*), and **LI**, Cold Sp., *Eng* (*Psyche*, Ap, 1908).

- T. armata** Morse. **SI**: the following were part of the paratypes of *T. davisii* Morse, now considered a synonym of *armata*: female, Ap 24, 1897; male, Sep, 1900; male, Je 5; female, Je; in wet places. *T. armata* is more common southward.

## ORDER ISOPTERA

## FAMILY TERMITIDAE

## RETICULITERMES Holmgren

- R. flavipes** Kollar. Ithaca; Binghamton, Je, destroying girders in a large office building (Chap); Karner (Felt); Albany, Ap (NYS); White Plains (Bno); Mt. Vernon, Ap (Felt); Bronx Pk.; Mosholu (*Sf*); NYC (*Joutel*); **SI**: Port Richmond; **LI**: Brooklyn; Bergen Beach; Long Island City; Cold Sp. Harb.; Floral Pk., Aug (Sirrinc); Sea Cliff (*Bks*); Pinelawn, swarming, Je (Ds).

## ORDER NEUROPTERA

## FAMILY SIALIDAE

## SUBFAMILY SIALINAE

**SIALIS** Latreille

- S. americana** Ramb. . L. George (Ndm).  
**S. concava** Bks. Ithaca (Bks).  
**S. infumata** Newn. Saranac Inn (Ndm); Ogdensburg, Je (Felt); Sacandaga Pk., Je (Alex); Castile, May, *Brad* (Fbs); Ithaca (Ndm); Ft. Montgomery, May (Ds); Ramapo, May-Je (Ds); Croton-on-Hudson, May (Ds); **SI**: Richmond, May (Ds).

## SUBFAMILY CORYDALINAE

**CHAULIODES** Latreille

- C. angusticollis** Hagen. Highland L., Sullivan Co, Aug, *Chapin* (Ds); **SI**, Jl-Aug (Ds).  
**C. concolor** Ds. Ithaca, Jl (KCDavis).  
**C. fasciatus** Wlk. (*humatus* Hagen). West Pt., Je, *Robn* (Ds); Sterlington, Je (Ds).  
**C. pectinicornis** L. Saranac Inn (Ndm); Ithaca, Je (SmRC); Trenton Falls (Hagen); Schenectady, Je-Jl (Lint); Buskirk's Bridge (Lint); Tiashoke (Lint); Troy, Jl (Felt); Athens, Jl (Felt); Sullivan Co (Ds); West Pt., Je (Ds); **SI**: Tottenville and Watchogue, May-Aug (Ds); **LI**: Maspeth, Je, *Olsen* (Ds).  
**C. rastricornis** Ramb. Saranac Inn, Je (Ndm); Baldwinsville, Je (Ndm); Fulton, Je (Ndm); McLean, Je (Ndm); **SI**, May-Je (Ds); **LI**, May (Ds).  
**C. serricornis** Say. Saranac Inn, Je (Ndm); Ithaca, Jl (SmRC); McLean, May (Ndm); West Pt., Je (Ds); Ramapo, May (Ds); Ft. Montgomery, May (Ds); Bronx Pk., May (Ds); **SI**, May-Jl (Ds).

**CORYDALIS** Latreille

- C. cornuta** L. Adirondacks (Felt); Ogdensburg, Jl (Felt); Oneonta (NYS); Rochester, Jl (Felt); Schuylerville, Jl (Felt); Ithaca; Peruville, Je (Felt); Schoharie, Je (Felt); Howe Cave, Je (Felt); Cobleskill, Aug (Felt); Shushan, Jl (Felt); Altamont, Jl (Felt); Albany, Je (Felt); Rensselaer, Je (Felt); Ghent, Aug (Felt); Grand Gorge, Jl (Felt); Kingston (Lint); Milton, Jl (Felt); Liberty (Ds); Cornwall (Lint); Pine I., Je (Ds); Ft. Montgomery (Ds). Rocky streams, generally (Ndm).

## FAMILY MANTISPIDAE

## MANTISPA Illiger

- M. brunnea** Say. **LI:** Coram, on the Pennequid Barrens, Aug 19, 1920, *Eng*, and Yaphank, *Wks* (Ds).  
**M. interrupta** Say. **LI:** Long Pond, Wading R., Je 26, 1922, found by Schott on the coat of Wm T. Davis, who had been walking through scrub oaks (Ds).

## FAMILY SISYRIDAE

## SISYRA Burmeister

- S. umbrata** Ndm. Saranac Inn, Je-Jl (Ndm); Sacandaga Pk., Je-Jl (Alex).  
**S. vicaria** Wlk. Saranac, Je (Bks); Ithaca, Je (Bks); Mosholu, Sep (Bks).

## CLIMACIA McLachlan

- C. areolaris** Hagen (*dictyona* Ndm). Saranac Inn, Jl-Aug (Ndm); Canada L., Jl, and Sacandaga Pk., Je 22 (Alex).

## FAMILY SYMPHEROBIIDAE

## PSECTRA Hagen

- P. diptera** Burm. Gloversville, Aug 29 (Alex); Ithaca (Bks).

## SYMPHEROBIUS Banks

- S. amicus** Fitch. "NY," on peach trees, May-Oct (Fitch-Sm NJ List); Ithaca, Aug 1, *Cy* (SmRC); **SI** (Ds); **LI:** (Ds); Sea Cliff (Bks).

## FAMILY HEMEROBIIDAE

## HEMEROBIUS Linnaeus

- H. castaneae** Fitch. Mosholu, Mar.  
**H. conjunctus** Fitch. "NY" (Fitch).  
**H. fidelis** Bks. Gowanda, Je, *EPV* (Bks).  
**H. humuli** L. (*castanae* Fitch, *tutatrix* Fitch). Wanakena, Aug, *Drake* (SmRC); Saranac Inn, Aug (CU); West Falls, Je (CU); Castile, May, *Brad* (Fbs); Ithaca; McLean, Jl-Sep (SmRC); Pine Kill, Sullivan Co, May 22, *Cy* (SmRC); **SI:** Tottenville, etc., Je-Aug; **LI:** Sea Cliff (Bks), May-Jl (Bks, SmRC); Ronkonkoma, Sep 9, *Cy* (SmRC).  
**H. hyalinatus** Fitch. "NY," May-Jl, on pine (Sm NJ List); L. Placid, Aug, *EPV* (NYS); Penn Yan, May 30, *Cy* (SmRC).  
**H. placidus** Bks. L. Placid, Aug (Bks).  
**H. simulans** Wlk. Ithaca (Bks).  
**H. stigmatatus** Fitch. Old Forge, Jl (CU); Otto, Sep (CU); Castile, May, *Brad* (Fbs); Cinnamon L., Jl 24, *Cy* (SmRC); Ithaca (Bks), in trap lantern, Jl 24, *Fbs* (SmRC); McLean, Sep (SmRC); **SI:** New Brighton, May, Sep (Ds); **LI:** Sea Cliff (Bks).

## BORIOMYIA Banks

- B. disjuncta** Bks. Keene Valley (Bks); Axton, *MacG* (Bks); Ithaca, *MacG* (Bks); Onteora Mt., J1, *How* (Bks).  
**B. longifrons** Wlk. (*alternatus* Fitch). "NY," on pine and hemlock in Je (Fitch-Sm NJ List); Ithaca, Je (Bks).

## MICROMUS Rambur

- M. angulatus** Steph. L. Placid, Aug, *EPV* (NYS); Cranberry L., J1, *Drake* (SmRC); Gloversville, Sep 9 (Alex).  
**M. jonas** Ndm. Saranac Inn, J1 (Ndm); Woodworth's L., Aug 19 (Alex).  
**M. montanus** Bks. L. Placid, Aug, *EPV* (NYS); Old Forge, J1 (CU); Mountain L., Fulton Co, J1 21 (Alex); Onteora Mt., *How* (Bks).  
**M. posticus** Wlk. West Falls, J1 (CU); Ithaca, J1, Sep-Oct (SmRC); Kingston, Aug, *EPV* (NYS).  
**M. subanticus** Wlk. L. Keuka, Sep (CU).

## FAMILY BEROETHIDAE

## LOMAMYIA Banks

- L. flavicornis** Wlk. **SI**: Clove Valley, J1, rare (Ds); **LI**: Central Pk., May, Aug (Ds); Coram, on the Pennequid Barrens, Aug 18, 1920 (Ds).

## FAMILY POLYSTOECHOTIDAE

## POLYSTOECHOTES Burmeister

- P. punctatus** Fab. Newport, Sep (Felt); Cranberry L., J1 (Ndm); Saranac Inn, common, J1 (Ndm); St. Lawrence Co, Aug (Ndm); Long L., Aug, abundant (Lint); Gloversville, J1 (Alex); N. Fair Haven, Aug (Ndm); Chautauqua (Ds); Ithaca, 1 specimen (SmRC); Troy, J1 (Felt); Stamford, Aug (Ds); **SI**, J1-Aug (Ds); **LI** (Ds).

FAMILY CHRYSOPIDAE <sup>7</sup>

## ALLOCHRYSA Banks

- A. virginica** Fitch. **SI**, Aug (Bks-Ds).

## CHRYSOPA Leach

- C. chi** Fitch (*ypsilon* Fitch). Newcomb, J1 (SmRC); Axton, Je (Bks); Cranberry L., J1 (SmRC); Old Forge (CU); Woodworth's L., Je 23, and Johnstown, Je 3 (Alex); Ithaca and McLean (SmRC); Black Br., Je (SmRC); Greene Co, J1 (SmRC); **LI**: Sea Cliff, May-Je (Bks).  
**C. emuncta** Fitch. Onteora Mt., Aug, *How* (Bks).  
**C. harrisii** Fitch. Newport, J1 (NYS); Pike, J1 (NYS); Albany, Oct (NYS); **SI**, Oct (Ds).  
**C. interrupta** Fitch. Honeoye Falls, Sep (SmRC); Ithaca, Aug, at trap lantern, Oct (SmRC).

<sup>7</sup> This list has been checked by Dr. Roger C. Smith, of the Department of Entomology, Kansas State Agricultural College.



- C. lineaticornis** Fitch. Ithaca, on linden (SmRC).
- C. nigricornis** Burm. Sacandaga Pk., Je 27 (Alex); Buffalo (Bks); Ithaca, May-Aug (Bks, SmRC); McLean, Je (Sib); **SI**, Aug-Sep (Bks-Ds); **LI**: Sea Cliff (Bks).
- C. oculata** Say (*chlorophana* Bks., *albicornis* Fitch). Generally distributed and common throughout the State. Wilmington, Aug (SmRC); Cranberry L., Jl (SmRC); Syracuse, Jl (SmRC); Old Forge and Baldwinsville; West Falls, Jl; Ithaca, Jl-Aug (Bks); McLean, Jl-Sep (SmRC); Karner, Je (SmRC); Onteora Mt., *How* (Bks); **SI**, Je-Jl (Bks-Ds); **LI**: Sea Cliff, Jl-Aug (Bks).
- C. plorabunda** Fitch. Not abundant in NY State (SmRC). Ithaca, Jl (CU).
- C. quadripunctata** Burm. Ithaca, Je, at trap lantern (SmRC); McLean, Aug (SmRC); **SI**, Sep (Bks-Ds); **LI**: Sea Cliff, Aug (Bks).
- C. rufilabris** Burm. Axton (Bks); Ithaca, Sep (Bks, SmRC); Trenton Falls (Wlk); **SI**, Sep (Bks-Ds); **LI**: Sea Cliff (Bks).
- C. stenostigma** Navas. **LI**: Yaphank, Jl 25, *Bno* (Navas).
- C. stichoptera** Navas. **LI**: Yaphank, Jl 10, *Bno* (Navas).

#### MELEOMA Fitch

- M. signoretti** Fitch. Old Forge, Jl (Ndm); Ithaca, Je (SmRC); Onteora Mt., Je, *How* (Bks); **LI** (Bks).
- M. slossonae** Bks. Old Forge, Jl (Ndm); Malone, Je (Ndm); Mountain L., Je 18 (Alex); Sacandaga Pk., *Alex* (SmRC).

### FAMILY MYRMELEONIDAE

#### MYRMELEON Linnaeus

- M. crudelis** Wlk. (*rusticus* Hagen). **SI**, Jl (Ds).
- M. immaculatus** DeG. Essex Co, Jl (NYS); Ithaca, Aug (Comstock); Albany; Coeymans, Je (Lint); **SI**, Je, Sep (Ds).

#### DENDROLEON Brauer

- D. obsoletum** Say. Ithaca, Jl-Aug (Comstock, Ndm-CU); Taughannock, Aug *Bdy* (Ndm-CU); Coeymans, Sep (Hagen); Palenville, Aug (Lint); **LI**: Yaphank, Jl-Aug, and Gardiners I. (Ds).

#### BRACHYNEMURUS Hagen

- B. abdominalis** Say. Croton-on-Hudson, Je (Ds); **SI**: Arrochar, Je, Aug, and Watchogue, Jl (Ds); **LI**: Yaphank, Jl, E. Quogue, Aug, Half Way Hollow Hills, Jl, and Coney I., Sep (Ds).

#### CRYPTOLEON Banks

- C. nebulosum** Oliv. (*conspersa* Ramb). **SI**: Richmond Valley, May (Ds); **LI**: Wyandanch, Jl; Bayshore, Jl, *Olsen*, and Yaphank, Jl (Ds).
- C. signata** Hagen. **SI** (Bks-Ds). Mr. Davis states that this is the *Dendroleon pumilis* Burm. of the N. J. List, 1910 ed., which was based on a misidentification by Banks.

## FAMILY ASCALAPHIDAE

## ULULODES Currie

**U. quadripunctata** Burm. **SI** (Ds).

## COLOBOPTERUS Rambur

**C. excisus** Hagen. Ithaca, *Ada E. Georgia* (Ndm).

## FAMILY CONIOPTERYGIDAE

## CONIOPTERYX Curtis

**C. hageni** Bks. **LI**: Sea Cliff (Bks).

**C. vicina** Hagen. Hamburg (Bks); Woodworth's L. and Johnstown, Aug (Alex); Ithaca, Jl-Aug, common; **LI**: Sea Cliff (Bks).

## MALACOMYZA Wesmael

**M. westwoodi** Fitch. Gloversville, Je 13 (Alex).

## CONWENTZIA Enderlein

**C. hageni** Bks. Speculator, Jl, *Yg* (NYS).

ORDER EPHEMERIDA<sup>s</sup>

## FAMILY EPHEMERIDAE

## SUBFAMILY BAETINAE

## BAETISCA Walsh

**B. obesa** Walsh. Northampton, May (Felt); Newport, May, *Yg*; Niagara R. (EPV); Fish House, May (Alex).

## CHIROTENETES Eaton

**C. albomanicatus** Ndm. Johnstown, Je-Jl (Alex); Fall Cr., Ithaca, Jl (Ndm, Morg); May-Aug, nymphs; Slaterville, Jl (Ndm).

## AMELETUS Eaton

**A. ludens** Ndm. Newport, May, *Yg*; Pleasant Br., Ithaca, nymphs abundant, Ap (Morg). An inhabitant of temporary streams, parthenogenetic, eggs aestivate five months. But one male known (Ndm).

## CHOROTERPES Eaton

**C. basalis** Bks. Old Forge, Aug (Ndm); Woodworth's L., Aug (Alex); Wintergreen Pt.; Ithaca, Jl (Ndm); L. George, Aug (Ndm).

<sup>s</sup> Edited by J. G. Needham.

**CAENIS** Stephens

- C. diminuta** Wlk. Thousand I. Pk. (M. R. Miller); Little Clear Pond, near Saranac Inn, J1 (Ndm); Saranac Inn, J1 (Ndm); Old Forge, J1-Aug (Ndm); Fall Cr., Ithaca (Morg); McLean, Je-Aug, Sib (Ndm); L. George, Aug (Ndm).  
**C. hilaris** Say. Thousand I. Pk. (M. R. Miller); Ithaca (Ndm, Morg), abundant.  
**C. lacustris** Ndm. Oneida L., *F. C. Baker* (Ndm).

**SIPHONURUS** Eaton

- S. alternatus** Say. Saranac Inn, Little Clear Pond, and Old Forge (Ndm); Bald Mt. Pond (Ndm); First L., Je (Ndm); Sacandaga Pk., Je (Alex); Ithaca, nymphs common, Ap-Je (Morg); Slaterville, Je (Ndm); Trenton Falls (Wlk).  
**S. aridus** Say. NY (Bks).  
**S. femoratus** Say. "NY" (Bks).  
**S. mirus** Eaton. Sacandaga Pk. and Fish House, May-Je (Alex).  
**S. typicus** Eaton. Johnstown, Je (Alex).

**SIPHLOPLECTON** Clemens

- S. flexus** Clem. Shore of L. Ontario near N. Fair Haven, J1 19 (Ndm).

**LEPTOPHLEBIA** Westwood

- L. betteni** Ndm. Hamburg, J1 (Bet); Howard, J1 5, Cy (Ndm); Ithaca (Ndm); McLean, J1 (Emily R. Morrison), Aug, Sib.  
**L. mollis** Eaton. Old Forge (Ndm); Fall Cr., Ithaca (Morg); L. George, Je (Ndm).  
**L. praepedita** Eaton. Fall Cr., Ithaca, May-Je (Morg).

**SIPHLONISCA** Needham

- S. aerodromia** Ndm. Sacandaga Pk., *Alex* (Ndm); Northampton, May (Felt); Johnstown, *Alex* (Ndm).

**CALLIBAETIS** Eaton

- C. americana** Bks. Van Cort. Pk., Je 2 (Ds); **SI**, Ap 30, May 10 (Ds); **LI**: Yaphank, J1 25 (Ds).  
**C. ferruginea** Walsh. Saranac Inn, Aug (Ndm); Mountain L., Je (Alex); **LI**: Sea Cliff (Bks).  
**C. fluctuans** Walsh. Ithaca, Je (Ndm).  
**C. hageni** Eaton. Old Forge, J1-Aug (Ndm).  
**C. undatus** Pict. "NY" (Hagen).

**BAETIS** Leach

- B. posticatus** Say. Old Forge, J1-Aug (Ndm).  
**B. propinquus** Walsh. Ithaca, *Murphy*.  
**B. pygmaea** Hagen. Saranac Inn (Ndm); Sacandaga Pk., Je (Alex); Ithaca, J1 (Ndm, Morg).

## BLASTURUS Eaton

- B. cupidus** Say. Old Forge, Je, and Ithaca (Ndm, Morg); McLean, May-Je, *Sib* (Ndm); Castile, Ap-May, *Brad* (Ndm); **SI**, Ap 16, 27, and Je (Ds); **LI**: Wyandanch, Ap 21, *Schott*, and Yaphank, May 29 (Ds).  
**B. nebulosus** Wlk. Fish House, May 28 (Alex).

## EPHEMERELLA Walsh

- E. cornuta** Morg. Ithaca (Morg).  
**E. deficiens** Morg. Ithaca (Morg).  
**E. dorothea** Ndm. Beaver Meadow Br., near Old Forge, extremely local (Ndm).  
**E. excrucians** Walsh. Saranac Inn (Ndm); Cayuga L., Je; L. George, Je (Ndm).  
**E. feminina** Ndm. Ithaca (Ndm); McLean, Jl-Aug, *Sib* (Ndm); Richfield Sps., May (Ndm). Apparently parthenogenetic.  
**E. lata** Morg. Ithaca, Je (Morg).  
**E. rotunda** Morg. Pleasant Br., Ithaca, Je (Morg).  
**E. serrata** Morg. Ithaca (Morg).  
**E. simulans** Wlk. Ithaca, Je (Morg).  
**E. tuberculata** Morg. Fall Cr., Ithaca (Morg).

## TRICORYTHUS Eaton

- T. allectus** Ndm. Old Forge, Ithaca, Je-Jl (Ndm).

## CLOEON Leach

- C. mendax** Walsh. Old Forge (Ndm).  
**C. vicinum** Hagen. Old Forge (Ndm).

## HABROPHLEBIA Eaton

- H. vibrans** Ndm. Bald Mt. Pond, near Old Forge, Jl (Ndm).

## SUBFAMILY EPHEMERINAE

## POLYMITARCYS Eaton

- P. albus** Say. Fall Cr., Ithaca, Je (Morg); points on Susquehanna R. (Ndm); Corning, on Chemung R., Aug (Ndm).

## HEXAGENIA Walsh

- H. bilineata** Say. Buffalo, Jl, *Bet* (Ndm); Niagara Falls, Jl, *Watson*, as *limbata* Guér. (Ds); Cayuga L. (Ndm); Seneca L. (Ndm); Schenectady, Je (Lint); L. George, in deep water, Jl-Aug (Ndm); Poughkeepsie, Jl (Felt).  
**H. recurvata** Morg. Pine L., near Canada L., Herkimer Co (Ndm); Michigan Hollow (Ndm); McLean (Ndm).  
**H. variabilis** Eaton. Little Clear Cr., near Saranac Inn, Je-Aug (Ndm); Ithaca, May (Morg); ? Coxsackie, Je (Felt).

## EPHEMERA Linnaeus

- E. guttulata** Pict. Sacandaga Pk., *Alex* (Ndm); Fall Cr., above McLean (Ndm); Ft. Montgomery, May 31, 1903 (Ds).



- E. simulans** Wlk. Sacandaga Pk., Je 23 (Alex); N. Fair Haven (Ndm); Cayuga L., Jl, *Comstock* (Ndm); Buffalo, *Bet* (Ndm); Fall Cr., Ithaca, Je-Jl (Morg); L. George, late Je-Jl (Ndm).
- E. varia** Eaton (*decora* Hagen). Little Clear Cr. and Saranac Inn (Ndm); Moose R. (Ndm); Old Forge (Ndm); Gloversville, Jl, *Alex* (Ndm); Fall Cr., Ithaca (Ndm, Morg).

#### POTAMANTHUS Pictet

- P. diaphanus** Ndm. Old Forge; Squaw I.; Buffalo, Jl, *Bet*; Ithaca (Ndm).
- P. inaequalis** Ndm. Schenectady, Je (Ndm).

#### SUBFAMILY HEPTAGENINAE

##### ECDYONURUS Eaton

##### (*Ecdyurus* Eaton)

- E. maculipennis** Walsh. Mountain L., Fulton Co, Jl (Alex); Corning, Jl, Cy (Ndm); Ithaca, Je-Jl (Ndm, Morg); McLean, Jl 29, Aug, *Sib* (Ndm).

##### HEPTAGENIA Walsh

- ? **H. canadensis** Wlk. "NY," O. S. (Hagen).
- H. interpunctata** Say. Old Forge (Ndm); Trenton Falls, O. S. (Hagen); Ithaca, Ap (Morg) and Jl (Ndm); McLean, Jl, *Sib* (Ndm); L. George, Aug (Ndm).
- H. luridipennis** Burm. Johnstown, Je, *Alex* (Bks); Westfield (Bks).
- H. placita** Bks. Sacandaga Pk., Je, *Alex* (Bks).
- H. pleuralis** Bks. Gloversville, May 15, *Alex* (Bks)—type; Ramapo, May 31, and SI, Je 7, as *Iron* (Ds).
- H. pulchella** Walsh. Saranac Inn (Ndm); Old Forge, Jl-Aug (Ndm); N. Fair Haven (Ndm); Fall Cr., Ithaca (Morg); L. George, Aug (Ndm).
- H. tripunctata** Bks. Westfield (Bks); Johnstown, Je 15 (Bks).
- H. verticis** Say. "NY" (Bks).

##### IRON Eaton

- I. fragilis** Morg. Coy Glen, Pleasant Br., and Fall Cr., near Ithaca (Morg).

##### EPEORUS Eaton

- E. humeralis** Morg. Ithaca, May-Jl (Morg); Slaterville, *Theresa M. Robinson* (Ndm); Tarel, near Lansing (Ndm).

#### ORDER ODONATA<sup>9</sup>

##### SUBORDER ZYGOPTERA

##### FAMILY AGRIONIDAE

##### CALOPTERYX Burmeister

- C. aequabilis** Say. Old Forge (Ndm); Keeseville, Aug, *Sheraton* (Calv); Ithaca, Je (Kennedy); Bronx Pk., Je (Ds).
- C. amatum** Hagen. Axton, Je (M&H); Keene Valley, Jl (Calv-NYS).

<sup>9</sup> Edited by J. G. Needham, with the collaboration chiefly of P. P. Calvert, E. M. Walker, and Wm. T. Davis.

- C. dimidiatum** Burm. Axton, Je (M&H); Rochester (Moore); NYC (Bt).  
**C. maculatum** Beauv. Generally distributed. Axton, Je (M&H); Keeseville, Je, *Sheraton* (Calv); Peru, Cy; Old Forge (Ndm); Saranac Inn, late Je (Ndm); De Ruyter Res., Madison Co, Cy; Buffalo, *EPV* (Kellicott); Castile, *Brad* (Ndm); Ithaca (Bks); Schenectady, J1 (NYS); Trenton Falls, O.S. (Hagen); NYC, Je (Hagen); **SI**, Je-Aug (Ds); **LI**, general (Ds). Streams in deep woods.

#### HETAERINA Hagen

- H. americana** Fab. Keeseville, Aug, *Sheraton* (Calv); Ithaca, *Salant* (Bks); Albany Co (NYS); Slingerlands, Aug (Felt). Along sandy streams, Aug-Sep; very local.

#### LESTES Leach

- L. congener** Hagen. L. St. Regis, Franklin Co, Sep, *Moore* (Calv); Castile, *Brad* (Ndm); Ithaca (Ndm); Bronxville, J1-Sep, *Woodr* (Ds); **SI**, Sep-Nov (Ds); **LI**: Flushing, Aug (Ds); Southold, Sep (Ds).  
**L. disjunctus** Selys. Waddington, Aug (Woodr); Keene Valley (Not); L. St. Regis, Franklin Co, Sep, *Moore* (Calv); Keeseville, J1-Aug, *Sheraton* (Calv); Ithaca, Aug (Bks); Catskill L., Aug (Calv); Hunter, Mud, and Burnt Hill Ponds, and Beaver Br., Sullivan Co, J1 (Calv); **LI**: Wading R. and Long Pond, Aug (Ds); Calverton, Sep (Ds); Bridgehampton, Aug (Calv).  
**L. eurinus** Say. Rochester (Moore); Dobbs Ferry, *Willn* (Calv); Riverdale, J1, *Woodr* (Ds); **SI**, Je-J1 (Ds); **LI**: Wading R., Je (Ds). Tree-shaded ponds.  
**L. forcipatus** Ramb. Rochester (Moore); Ithaca, Je (Bks); Bronxville, Je-Aug, *Woodr* (Ds); **SI**, May-Aug (Ds); **LI**: Deep Pond, Wading R., Aug-Sep (Ds); Yaphank, Sep (Ds); Gardiners I., Aug (Ds).  
**L. inaequalis** Walsh. **SI**, Je-J1 (Ds).  
**L. rectangularis** Say. Dobbs Ferry, J1 (Calv); Rochester (Moore); Buffalo, Aug-Sep, *EPV* (Kellicott); Ithaca, J1-Aug (Bks); Schoharie (NYS); Saratoga L., Aug (Calv); Cairo and Stony Clove, Greene Co, Aug-Sep (Calv); Black L., Beaver Br., and Stump Pond, Sullivan Co, Aug (Calv); New Baltimore (NYS); Bronxville, J1 (Woodr); NYC, *Calverley* (Hagen); **SI**, Je-Aug (Ds); **LI**: Flushing and Gardiners I., Aug (Ds).  
**L. uncatus** Kby. Mt. Marcy, 4500 ft. (Not); Keeseville, J1, *Sheraton* (Calv); Saranac Inn (Ndm); Batavia, Je (Ds); Buffalo, Je-Aug, *EPV* (Kellicott); Ithaca (Ndm); Bronxville, J1, *Woodr* (Ds).  
**L. unguiculatus** Hagen. Keene Valley (Not); Saranac Inn, J1 (Ndm); Rochester (Moore); Ithaca (Ndm); NYC (Bt); Bronxville, Je-J1, *Woodr* (Ds); **SI**, Je-J1 (Ds); **LI**: Yaphank, Sep (Ds); Long Pond, Wading R., Je-Aug (Ds); Orient, Sep, *Lath* (Ds); Gardiners I., J1 (Ds).  
**L. vigilax** Hagen. Old Forge, Je-J1 (Ndm); Green and Catskill Lakes, Aug (Calv); Folwood, Amber, Stevensville, and Black Lakes, Knapp and Stump Ponds, and Beaver Br., Sullivan Co, J1-Aug (Calv); **LI**: Yaphank, J1 (Ds); Wading R., Aug (Ds); Wyandanch, J1 (Ds); Cold Sp. Harb. (Ndm).

**ARGIA** Rambur

- A. apicalis** Say. **SI** (Ds).  
**A. bipunctulata** Hagen. "NY" (Bks).  
**A. moesta** Hagen subsp. **putrida** Hagen. Axton, Je (M&H); Saranac Inn (Ndm); Keene Valley (Not); Rochester (Moore); Niagara, *Slosson* (Calv); Buffalo, J1-Aug, *EPV* (Kellicott); Ithaca, summer (Bks); Schoharie (NYS). Along creeks where rapid current is broken by projecting stones.  
**A. tibialis** Ramb. Pine I., Je (Woodr).  
**A. translata** Hagen. White L., Sullivan Co, Aug (Calv).  
**A. violacea** Hagen. Waddington, Aug (Woodr); Axton (M&H); Keeseville, J1-Aug, *Sheraton* (Calv); Old Forge (Ndm); Saranac Inn, J1 (Ndm); Buffalo, Aug, *EPV* (Kellicott); Ithaca, J1 (Bks); L. George, Aug (Ndm); Green L. (Calv); Amber, White, and Black Lakes, Jenkins and Stump Ponds, and Beaver Br., Sullivan Co, J1-Aug (Calv); Dobbs Ferry, J1-Aug, *Willn* (Calv); Bronxville, J1, *Woodr* (Ds); **SI**, Je-Aug (Ds); **LI**: Yaphank, J1-Sep (Ds); Smithtown, Aug (Ds); Wyandanch, J1 (Ds); Flushing, Aug (Ds). About most ponds.

**ENALLAGMA** Charpentier

- E. antennatum** Say. Waddington, Aug (Woodr); Keene Valley (Not); Ithaca (Kellicott-CU).  
**E. aspersum** Hagen. Dobbs Ferry, J1, *Willn* (Calv); Burnt Hill, Knapp, and Cranberry Ponds, Sullivan Co, J1 (Calv); NYC (Bt); **SI**, Je-Aug (Ds); **LI**: Yaphank, J1 (Ds); Bridgehampton, Aug (Calv).  
**E. calverti** Morse (*boreale* Selys [Wlk.]). McLean Bogs (*Bdy&Hd*).  
**E. carunculatum** Morse. Waddington, Aug (Woodr); Keene Valley (Not); Piseco L., Aug (Calv); L. Pleasant, J1 (Calv); Squaw I., late Je, *EPV* (Kellicott); Niagara, *Slosson* (Calv); Saratoga L., Aug (Calv); L. George (Ndm); Bronxville, Je, Aug, *Woodr* (Ds).  
**E. civile** Hagen. Rochester (Moore); Bronxville, *Woodr* (Ds); **SI**, Je, Aug-Sep (Ds); **LI**: Mecox Bay (Calv); Flushing, Yaphank, and Fire I. (Ds); Greenport, Aug (Ds); Amagansett, Sep (Eng); Rockaway, J1 (Woodr); Gardiners I., Aug (Ds).  
**E. cyathigerum** Charp. (*annexum* Hagen). Keeseville, Je, *Sheraton* (Calv); Saranac Inn, J1 (Ndm); Ithaca, Aug (Bks); West Pt., Je (Ds).  
**E. divagans** Selys. Rochester (Moore); Ithaca (Mary Lyon); **LI** (Bks).  
**E. doubledayi** Selys. Ithaca (Mary Lyon); **LI**: Deep Pond, Wading R., Je, Aug (Ds); Bridgehampton, Aug (Calv).  
**E. durum** Hagen. Stony Pt., Je (Ds); **LI**: Mecox Bay, Aug (Calv); Yaphank, Je, Sep (Ds).  
**E. ebrium** Hagen. Waddington, Aug (Woodr); Keene Valley and Mt. Marcy, 4500 ft. (Not); Keeseville, Je-J1, *Sheraton* (Calv); Ithaca (Bks); L. George (Ndm); Schoharie (NYS); Catskills (Calv-AES); ponds in Ulster, Sullivan, and Greene Counties, J1-Aug (Calv).  
**E. exsulans** Hagen. Keene Valley (Not); Keeseville, Je, Aug, *Sheraton* (Calv); Saranac Inn (Ndm); Old Forge (Ndm); Black Rock Harb., Je, *EPV* (Kellicott); Rochester (Moore); Clarence, J1, *EPV* (Kellicott); Ithaca, J1-Aug (Bks); Pine I., Je (Ds); Port Jervis (Calv); Saratoga L., Aug (Calv); Pine I., Je (Woodr); Bronxville, J1, *Woodr* (Ds); West Farms, *Angus* (Ds).

- E. geminatum** Kellicott. Parish, Aug (Kellicott); Green L., Aug (Calv); Amber L., Sullivan Co, Aug (Calv); **SI**, Aug-Sep (Ds), Je (Woodr); **LI**: Yaphank, Wyandanch, and Flushing, J1-Sep (Ds).
- E. hageni** Walsh. Axton, Je (M&H); Saranac Inn (Ndm); Keene Valley (Not); Old Forge (Ndm); Squaw I., Je, *EPV* (Kellicott); L. Pleasant, J1 (Calv); Lake Bluff at Huron (Calv); Castile, *Brad* (Ndm); Ithaca (Bks-CU); Rensselaer, Je (Woodr); Knapp Pond, Sullivan Co, J1 (Calv).
- E. hesperum** Calv. (*pollutum* Hagen). Black L., Sullivan Co, Aug (Calv); **LI**: Yaphank, Sep (Ds).
- E. minusculum** Morse. **LI**: Long Pond, Wading R., Je 26, 1917, common (Ds).
- E. pictum** Morse. **LI**: Wyandanch, J1 (Ds).
- E. piscinarium** Willn. Mt. Marcy and Keene Valley (Not); Ithaca (Ndm).
- E. recurvatum** Ds. **LI**: Wyandanch, J1 (Ds).
- E. signatum** Hagen. Rochester (Moore); Williamsville, Sep, *EPV* (Kellicott); Ithaca (Ndm); Folwood, Amber, and Black Lakes, and Stump Pond, Sullivan Co, Aug (Calv); Green L., Aug (Calv); Bronxville, Aug (Woodr); **SI**, Je, Aug (Ds); **LI**: Yaphank, Sep (Ds); Flushing, Aug (Ds); Cold Sp. Harb., J1, *Brb* (Ds). Along sluggish creeks.
- E. traviatum** Selys. **LI**: (Bks); Wyandanch, Aug 21, 1917 (Ds).

#### NEHALENNIA Selys

- N. carlotta** Butler. Saranac Inn, *Ndm* (Hortense Butler).
- N. gracilis** Morse. Saranac Inn (Ndm); **LI**: Yaphank, J1 (Ds).
- N. irene** Hagen. Mt. Marcy, 4500 ft. (Not); Old Forge (Ndm); Saranac Inn, J1 (Ndm); Rochester (Moore); Ithaca, J1 (Bks); Nyack, Je (Ds); Bronxville, J1, *Woodr* (Ds); **SI**, Je (Ds); **LI**: Wyandanch and Yaphank, J1 (Ds); Forest Pk., Brooklyn, Je (Ds).

#### AMPHIAGRION Selys

- A. saucium** Burm. Rochester (Moore); Buffalo, J1-Aug, *EPV* (Kellicott); Ithaca (Bks); McLean (Sib); Trenton Falls, *O.S.* (Hagen); Karner (NYS); Schoharie, Je (Not); Big Pond, Delaware Co, J1 (Calv); **SI**, May-Je, Aug (Ds); **LI**: Half Way Hollow Hills, J1 (Ds); Yaphank, Je (Ds).

#### COENAGRION Kirby

- C. resolutum** Hagen. Cinnamon L., J1 (Ndm).

#### CHROMAGRION Needham

- C. conditum** Hagen. Saranac Inn (Ndm); Mt. Marcy (Not); Hamburg, Je, *EPV* Kellicott; Castile, *Brad* (Ndm); Ithaca (Bks); McLean, May (Ndm), Je (Sib); **SI**, J1 8, 1918 (Ds). Breeds in upland swales or in ditches of running water.

#### ISCHNURA Charpentier

- I. posita** Hagen. Rochester (Moore); Ithaca (Ndm); Central Pk. in NYC, Je (Woodr); **SI**, May-Sep (Ds); **LI**: Yaphank, J1 (Woodr).
- I. ramburii** Selys. NYC (Bt); **SI**, Sep-Oct (Ds); **LI**: Fire I., Sep (Ds).
- I. verticalis** Say. Generally distributed. Waddington, Aug (Woodr); Old Forge (Ndm); Axton (M&H); Mt. Marcy and Keene Valley (Not); Keeseville,



Je, Aug, *Sheraton* (Calv); Mooers, Sep (*Not*); Saranac Inn, Jl (Ndm); Squaw I. and along Niagara R., May-Sep, *EPV* (Kellicott); Niagara, *Slosson* (Calv); Castile, *Brad* (Ndm); Ithaca, Jl-Aug (Bks); Saratoga L., Aug (Calv); many ponds in Delaware, Ulster, and Sullivan Counties, Jl (Calv); Dobbs Ferry, Je, Aug, *Willn* (Calv); Bronxville, Jl (Woodr); Central Pk. in NYC, Jl (Woodr); **SI**: May-Sep (Ds); Annadale, Je (Troop); **LI**: Mecox Bay and Bridgehampton, Aug (Calv).

#### ANOMALAGRION Selys

**A. hastatum** Say. Keeseville, Jl, *Sheraton* (Calv); Ithaca (Ndm); NYC (Bt); Bronxville, Jl, *Woodr* (Ds); **SI**, Jl-Nov (Ds); **LI**: Gardiners I., Jl-Aug (Ds).

### SUBORDER ANISOPTERA

#### FAMILY AESCHNIDAE

#### TACHOPTERYX Selys

**T. thoreyi** Hagen. Portage, Je (Ds); Coy Glen, Ithaca, Je (DtAS); McLean (Kennedy); West Pt., Je (Ds); Ft. Montgomery, Jl, *Schott* (Ds); Ramapo, Je, *Watson* (Ds).

#### CORDULEGASTER Leach

**C. diastatops** Selys. Ithaca and McLean, May-Jl (Ndm, DtAS).

**C. erroneus** Hagen. Keene Valley (NYS); Ithaca, Je (DtAS).

**C. maculatus** Selys. Keene Valley (Comstock); Axton, Je (M&H); Saranac Inn, Jl (Ndm); Ramapo, May (Ds); Bronxville, Je, *Woodr* (De); Nyack, Je (Ds); **SI**, May-Je (Ds); **LI**: Yaphank, May, *Eng* (Ds).

**C. obliquus** Say. Pine I., Je (Ds); Bronxville, May-Je (Woodr); Bronx Pk., Je (Ds); Van Cort. Pk., Je, *Watson* (Ds).

#### GOMPHOIDES Selys

##### (*Progomphus* Selys)

**G. obscura** Ramb. **LI**: Wading R. and Deep Pond, Je-Aug (Ds).

#### HAGENIUS Selys

**H. brevistylus** Selys. Old Forge (Ndm); Saranac Inn, Je (Ndm); Parish, Aug (Kellicott); Rochester (Moore); Ithaca (Bks-CU); L. George (Sib); **LI**, *Eng* (Ds).

#### OPHIOGOMPHUS Selys

**O. aspersus** Morse. Saranac Inn, Je-Jl (Ndm); Van Cort. Pk., Bronx, Je (Ds).

**O. carolus** Ndm. Castile, *Brad* (Ndm); Ithaca, May, *Yg*, *Martin* (Ndm); W. Danby, Je, abundant (Kennedy); Schoharie, Je (Not).

**O. johannus** Ndm. Wilmurt (Ndm-CU).

**O. mainensis** Pck. Keene Valley, 1000 ft. (NYS).

**O. rupinsulensis** Walsh. Ithaca (Bks), Je, *Martin* (Ndm); Schoharie (Selys-NYS); Callicoon, Jl (Ds).

## LANTHUS Needham

- L. albistylus** Selys. Bear Swamp, Ramapo Mts., close to state line, Je, *C.E. Slight* (Ds).  
**L. parvulus** Selys. Indian Pass, Adirondacks, Jl, *Watson* (Ds); Ithaca (Bks, Ndm); E. Jewett, Aug (Ds); Portage, Je (Ds); Ramapo, May (Ds).

## GOMPHUS Leach

- G. abbreviatus** Hagen. Fall Cr., Ithaca, Je (Ndm); Greenwood L., Je, *Schott* (Ds).  
**G. adelphus** Selys. Bethlehem, Je (Selys); Kenwood, Je (NYS); Coeymans, Sep (Lint).  
**G. amnicola** Walsh. Bethlehem, Jl (Willn).  
**G. borealis** Ndm. Saranac Inn (Ndm).  
**G. brevis** Selys. Axton, Je (M&H); Saranac Inn, Je-Jl (Ndm); Schoharie, *Lint* (Hagen).  
**G. cornutus** Tough. McLean Res., *Sib* (Ndm).  
**G. descriptus** Bks. Saranac Inn (Ndm); Ithaca, May (Bks), May-Je (Ndm); W. Danby, May (Ds); McLean, May, *Hd* (Ndm).  
**G. exilis** Selys. Axton, Je (M&H); Keeseville, Je, *Sheraton* (Calv); Saranac Inn, Je-Jl (Ndm); Rochester (Moore); Ithaca, Je-Jl (Bks); L. George, Je (Ndm); Cinnamon L., Jl 12 (Ndm); Coeymans, Sep (Felt); West Pt., Je (Ds); Pine I., Je (Woodr); Bronxville, Je (Woodr); **SI**, May-Jl (Ds); **LI**: Wading R., Je (Ds).  
**G. fraternus** Say. Niagara R., Je, *EPV*, *Schaum* (Kellicott, Hagen).  
**G. furcifer** Hagen. Ithaca (Ndm-CU).  
**G. lividus** Selys. Ithaca, May (Ndm); McLean, May (Ds); Pine I., Je (Ds); Bronxville, May-Je, *Woodr* (Ds).  
**G. notatus** Ramb. Rochester (Moore).  
**G. plagiatus** Selys. Bethlehem, Sep (Calv); L. George, Aug (Ndm); **LI**, *Olsen* (Ds).  
**G. quadricolor** Walsh. Ithaca (Ndm); Schoharie, Je (Not).  
**G. scudderi** Selys. Saranac Inn, Je-Aug (Ndm); Ithaca, upper Cascadilla Cr., Jl (Kennedy).  
**G. spicatus** Hagen. Axton, Je (M&H); Old Forge, Je-Jl (Ndm); Saranac Inn, Je-Jl (Ndm); Clarence, Jl, *EPV* (Kellicott); Black Rock Harb., Je, *EPV* (Kellicott); Ithaca (Mary Lyon); Cinnamon L., Jl 12 (Ndm); Slide Mt., Je (Woodr). Taken in a tamarack swamp (Ndm).  
**G. spiniceps** Walsh. Ithaca (Ndm); Bethlehem, Sep, *Willn* (Lint-MCZ); Albany (Willn-MCZ).  
**G. vastus** Walsh. "NY" (Hagen).  
**G. ventricosus** Walsh. Old Forge (Ndm); Pine I., Je (Ds).  
**G. villosipes** Selys. Grand I., *Fischer* (Kellicott); Ithaca, May (Ndm, Bks); Pine I., Je (Woodr); **SI**: Ft. Wadsworth, Je 18 (Ds).

## DROMOGOMPHUS Selys

- D. spinosus** Selys. Old Forge (Ndm); Baldwinsville, *Pettit* (Bks); Castile, *Brad* (Ndm); Canandaigua L., Je (Herr); Ithaca (?) (Bks-CU); Schoharie, Je (Not); Karner, Je (Hagen); White L., Sullivan Co, Aug (Calv); Pine I., Je (Ds); Van Cort. Pk., Jl, *Watson* (Ds).

## BOYERIA McLachlan

- B. grafiana** Willn. Old Forge, Aug, *Willn* (Ndm); E. Jewett, Aug (Ds); Ft. Montgomery, Sep (Schott).  
**B. vinosa** Say. Waddington, Jl (Woodr); Old Forge, Aug (Ndm); Keeseville, Jl, *Sheraton* (Calv); Saranac Inn, Je (Ndm); Piseco L., Aug (Calv); Parish, Aug (Kellicott); Colden, Aug, *EPV* (Kellicott); Ithaca, Jl (Bks); Schoharie (Calv); Elk L., Aug (Calv); **SI**, Jl-Aug (Ds); **LI**: Yaphank, Jl, Sep (Ds); Smithtown, Aug (Ds).

## BASIAESCHNA Selys

- B. janata** Say. Keeseville, Je, *Sheraton* (Calv); Saranac Inn, Je-Jl (Ndm); Conesus L., Je (Ds); Etna, May (DtAS); Ithaca, bred (Ndm); L. George, Je (Ndm); West Pt., Je (Ds); Pine L., Je (Ds); Ramapo, Je (Ds); Hillburn, May, *Schott* (Ds); Brewster, Jl 12 (Ndm); Bronxville, Je, *Woodr* (Ds); **SI**, May (Ds); **LI**: Yaphank, May-Je (Ds).

## GOMPHAESCHNA Selys

- G. furcillata** Say. Rochester (Moore); Ringwood Hollow near Ellis, Je (Mrs Ndm); May, abundant (Kennedy); Freeville, McLean, and Ithaca, Je (DtAS); West Pt., Je (Ds); Nyack, Je (Ds); Ramapo, Je (Ds); **LI**: Yaphank, May-Je (Ds).

## ANAX Leach

- A. junius** Dru. Generally distributed and common. Keene Valley (Comstock); Old Forge, Je (Ndm); Saranac Inn (Ndm); Olcott, Je-Sep (DtAS); Buffalo, Je-Jl, *EPV* (Kellicott); Caledonia Cr., Dec, *Lint* (Hagen); Ithaca, (Bks); McLean, Je-Sep (DtAS); Schoharie (NYS); Coeymans, Aug (Felt); Cinnamon L., Jl 12 (Ndm); many lakes and ponds in Ulster, Sullivan, and Greene Counties, Jl-Aug (Calv); Bronxville, Je-Jl (Woodr); **SI**, Ap-Oct (Ds); **LI** (Weeks).  
**A. longipes** Hagen. Not common. **SI**: not uncommon near Moravian Cemetery (Ds); Clove Valley, Je, Aug (Ds); **LI**: Wyandanch, Je (Ds); Long Pond, Wading R., Je (Ds).

## AESCHNA Fabricius

- A. canadensis** Wlk. L. St. Regis, Franklin Co, Sep (Wlk); Ithaca, Aug (Wlk); **SI**, Je (Ds).  
**A. clepsydra** Say. Waddington, Aug (Woodr); L. St. Regis, Franklin Co, Sep, *Moore* (Calv); Saranac Inn, latter part of summer (Ndm); Ithaca, Aug (Bks); Schoharie (NYS); Albany, Je (Felt, 31st Rept., 1916, p. 98); Catskills, Aug, *Aaron* (Calv-AES); Greenwood L., Jl (Ds). **LI**: Deep Pond, Wading R., Jl (Ds).  
**A. constricta** Say. Hotel Champlain, Sep, *Moore* (Calv); Saranac Inn, Je-Aug (Ndm); Olcott, Aug-Sep (DtAS); Buffalo, Jl, *EPV* (Kellicott); Ithaca, Jl-Sep (Bks, DtAS); N. Spencer, Aug (DtAS); Watkins Glen, *Slosson* (Calv); Schoharie (NYS); Catskills, Aug, *Aaron* (Calv); Dobbs Ferry, Aug-Sep, *Willn* (Calv); Bronxville, Jl, *Woodr* (Ds); NYC (Bt); **SI**, Je, Sep-Oct (Ds); **LI**: Flatbush, Sep (Ds).  
**A. eremita** Scud. Loch Bonnie, Adirondacks, Sep; Saranac Inn, Jl (Wlk).  
**A. interrupta** Wlk. Franklin Co, Sep (Wlk); Catskills, Aug.  
**A. tuberculata** Wlk. Castile, *Brad* (Ndm).

- A. umbrosa** Wlk. L. St. Regis, Franklin Co, Sep (Wlk); Saranac Inn, Aug (Woodr); Oneida, Aug (Wlk); Clyde, Aug (Wlk); Naples, Aug 14 (Bish); Ringwood, Jl (DtAS); Albany, Oct (Felt); Catskills, Aug (Wlk); Cairo, Aug (Wlk); Ellenville, Aug (Wlk); West Pt., Sep (Wlk); Dobbs Ferry, Aug (Wlk); Bronxville, Jl-Oct, *Woodr* (Ds); NYC, Sep (Woodr); **SI**, Aug-Oct (Ds); **LI**: Yaphank, Oct (Ds); Pinelawn, Sep (Ds); Rockaway, Sep (Woodr).
- A. verticalis** Hagen. N. Spencer, Aug (DtAS); Caledonia Cr. (Hagen); Schoharie (NYS); Mooers, Sep (*Not*); NYC (Bt); **SI**: Je-Oct (Ds); Clove Valley, Oct (Ds); **LI**: Brooklyn, Jl-Sep, *Eng* (Ds); Cold Sp. Harb., Aug, *Brb* (Ds), Sep (Wlk).

#### NASIAESCHNA Selys

- N. pentacantha** Ramb. Baldwinsville, Je, *Pettit* (Bks).

#### EPIAESCHNA Hagen

- E. heros** Fab. Lewis Co (NYS-Hill); Buffalo, Je-Jl, *EPV* (Kellicott); Rochester (Moore); Batavia, Je (Ds); Ithaca, Je (Bks-CU); Albany, Je (NYS); Ft. Edward, Je, *King* (Lint); Stuyvesant Falls (NYS); West Pt., Je (Ds); Dobbs Ferry, Aug, *Willn* (Calv); commonly seen in NYC (Woodr); **SI**, May, Aug (Ds); **LI**: Rockaway Beach, Aug 17, 1916, many drowned (Ds); Orient, Aug, *Lath* (Ds).

### FAMILY LIBELLULIDAE

#### DIDYMOPS Rambur

- D. transversa** Say. Keeseville, Je, *Sheraton* (Calv); Saranac Inn, Je (Ndm); Old Forge, Je (Ndm); Conesus L., Je (Ds); Ithaca, Je-Jl (Bks); L. George, Je (Ndm); Ramapo, Je (Ds).

#### MACROMIA Rambur

- M. illinoiensis** Walsh. Saranac Inn (Ndm); Oswego Co, Je (Willn-US); Grand L., *Fischer* (Kellicott); Buffalo, Jl (*EPV*); Taughannock, Aug (DtAS); L. George, Je (Ndm); Albany, Jl (Ds); Pine L., Je (Ds); Ft. Montgomery, May (Ds); Ramapo, Je (Ds).

#### EPICORDULIA Selys

- E. princeps** Hagen. Waddington, Aug (Woodr); Saranac Inn (Ndm); Black Rock Harb., Je-Jl, *EPV* (Kellicott); Rochester (Moore); Ithaca, Je (Bks-CU); McLean, Jl (DtAS); Albany, Jl (Lint); Kenwood (NYS); Greenwood L., Je-Jl, *Watson* (Ds); Benmar L., near Brewster (Ndm); Pine L., Je (Ds); NYC, Je, *Woodr* (Ds).

#### NEUROCORDULIA Selys

- N. obsoleta** Say. L. George, Je, Aug (Ndm); Benmar L., near Brewster (Ndm); White L., Sullivan Co (Calv).

#### HELOCORDULIA Needham

- H. uhleri** Selys. Saranac Inn (Ndm); N. Fair Haven, Jl (Ndm); Greenwood L., May, *Schott* (Ds).



## TETRAGONEURIA Hagen

- T. canis** McL. Saranac Inn, Je (Ndm).  
**T. cynosura** Say. Old Forge (Ndm); Saranac Inn (Ndm); Black Rock Harb., Je, *EPV* (Kellicott); Rochester (Moore); Olcott, May, Aug (DtAS); Ithaca (Bks); Canandaigua (Herr); L. George (Calv-AES); West Pt., Je (Ds); Pocantico Hills, Je, *Woodr* (Ds); Benmar L., near Brewster (Ndm); Pine I., Je (Woodr); Tuxedo, May-Je (Woodr); NYC, Je, *Woodr* (Ds); **SI**, Je-Jl, *Ds* (Calv).  
**T. cynosura** var. **simulans** Mutt. Axton (M&H); Saranac Inn, Je (Ndm); Baldwinsville, *Pettit* (Bks); Black Rock Harb., Je, *EPV* (Kellicott); Ithaca (?) (Bks-CU); L. Mohonk and Pine I., Je (Woodr); Ramapo, May-Je (Ds); Benmar L., near Brewster (Ndm).  
**T. spinigera** Selys. Saranac Inn, Je (Ndm); Oswego, May (Mutt); Buffalo, May, *EPV* (Kellicott); Castile, *Brad* (Ndm); Ithaca, Je (Ndm); Albany, Sep (NYS).

## DOROCORDULIA Needham

- D. lepida** Hagen. Albany (Selys); Burnt Hill and Mud Ponds, and Amber L., Sullivan Co, Jl-Aug (Calv); **SI**: Eltingville, Je (Ds); **LI**: Wading R., Je (Ds).  
**D. libera** Selys. N. Elba, Jl (Ds); Saranac Inn, Jl (Ndm); Catskills (Calv-AES); Cinnamon L., Jl 12 (Ndm); West Pt., Je (Ds); Bronxville, May, *Woodr* (Ds); NYC, May, *Woodr* (Ds); **SI**: Ft. Wadsworth, Je 18 (Ds); **LI**: Deep Pond, Wading R., Je (Ds); Wyandanch, Je (Ds).

## WILLIAMSONIA Davis

- W. lintneri** Hagen. Karner, May, *Lint* (Hagen).

## CORDULIA Leach

- C. shurtleffi** Scud. Old Forge (Ndm); Saranac Inn, Jl (Ndm); Cinnamon L., Jl 12 (Ndm); Catskills, Je (Eng); Slide Mt., Je (Ds); Tunis L., Ulster Co, Je (Calv); Oliverea, Je (Ds).

## SOMATOCHLORA Selys

- S. albicincta** Burm. Mt. Marcy, Jl, *Not* (Ds); L. Tear, Jl, *Watson* (Ds).  
**S. elongata** Scud. Ithaca, Je (Bks-CU), reared Ap, *Kennedy* (Wlk).  
**S. linearis** Hagen. Grand I., *Fischer* (Kellicott); Oswego Co, Aug (Kellicott); Varna and Ithaca (Ndm); **SI**: Green Ridge, Jl-Aug (Ds).  
**S. minor** Calv. Harrietstown, Jl, *R. P. Currie* (Wlk).  
**S. semicircularis** Selys. Wilmington, Adirondacks, Jl, *Ds* (Willn).  
**S. tenebrosa** Say. Oswego Co, Aug (Kellicott); N. Fair Haven, Jl, *Kennedy* (Wlk); Clarence, Jl, *EPV* (Kellicott); E. Jewett, Aug (Ds); Mt. Joy, Ramapo Mts., Aug (Ds); West Pt., Sep (Wlk); **LI**: Hauppauge and Wyandanch, Aug (Ds).  
**S. walshii** Scud. Keene Valley, Aug (Calv); Chilson L. (Ds); Castile, Aug 23, 1924, *Brad* (Ndm); Ellis Hollow, Ithaca, Aug, *Kennedy* (Wlk).  
**S. williamsoni** E. M. Wlk. Bone Pond, Saranac Inn, Jl (Ndm); Fair Haven, Jl, *Kennedy* (E. M. Wlk).

## LADONA Needham

- L. deplanata* Ramb. **LI**: Amityville, Je, *Bather* (Ds); Wyandanch, Ap (Ds); Wading R., Je (Ds).  
*L. exusta* Say. L. George (Calv-AES); Croton-on-Hudson, Jl; West Pt., Je (Ds); Ramapo, Je (Ds); **SI**, Je (Ds).  
*L. julia* Uhler. Axton, Je (M&H); Saranac Inn, Je (Ndm); Cinnamon L., Jl 12 (Ndm).

## LIBELLULA Linnaeus

- L. auripennis* Burm. NYC (Bt); **SI**, May-Jl (Ds); **LI**: Deep Pond, Wading R., Je-Aug (Ds); Coney I. (Ds); Greenport, Aug (Ds); Shelter I., Aug (Ds).  
*L. axillena* Westw. **SI**: Buck's Hollow, May (Ds).  
*L. cyanea* Fab. Riverdale, Jl, *Woodr* (Ds); NYC (Bt); Bronxville, Je-Jl, *Woodr* (Ds); **SI**, Je-Aug (Ds); **LI**: Flushing, Aug (Ds); Yaphank, Jl (Ds); Wading R., Je (Ds); Half Way Hollow Hills, Jl (Ds).  
*L. flavida* Ramb. NYC (Bt); **LI**: Long Pond, Wading R., Je (Ds); Riverhead, Jl (Ds).  
*L. incesta* Hagen. Croton-on-Hudson, Je (Ds); Amber L. and Stump Pond, Sullivan Co, Aug (Calv); Ramapo, Je (Ds); **LI**: Yaphank, Jl (Ds); Wading R. and Long Pond, Aug (Ds); Riverhead, Aug (Ds).  
*L. luctuosa* Burm. (*basalis* Say). Old Forge and Saranac Inn (Ndm); Olcott, Je-Aug (DtAS); Niagara R. and Tonawanda Cr., Je-Jl, *EPV* (Kellicott); Danby, Je-Aug (DtAS); Ithaca, Aug (Ndm); Kenwood (NYS); Dobbs Ferry, Jl, *Willn* (Calv); Bronxville, Jl, *Woodr* (Ds); Van Cort. Pk., Jl (Ds); **SI**, Je-Aug (Ds); **LI**: Flushing, Aug (Ds); Wading R., Je (Ds).  
*L. pulchella* Dry. Ponds everywhere (Ndm). Saranac Inn and Old Forge (Ndm); Keeseville, Jl-Aug, *Sheraton* (Calv); Axton, Je (M&H); Keene Valley (Comstock); Olcott, Jl-Aug (DtAS); Buffalo, Je-Aug, *EPV* (Kellicott); Portage, Je (Ds); Ithaca (Ndm); McLean, Jl-Aug (DtAS); many ponds and lakes in Delaware, Ulster, Sullivan, and Greene Counties, Jl-Aug (Calv); Schoharie (NYS); Dobbs Ferry, Je-Jl, *Willn* (Calv); Bronxville, Jl, and NYC, Je (Woodr); **SI**, May-Sep (Ds); **LI**: Coney I., Aug (Weeks); Wyandanch, Jl (Ds); Wading R., Je (Ds); Bridgehampton, Aug (Calv).  
*L. quadrimaculata* L. Saranac Inn (Ndm); Wilmington, Jl (Ds); Portage, Je (Ds); Olcott, Jl-Aug (DtAS); Buffalo, *EPV* (Kellicott); Ithaca (Bks-CU), Jl-Aug (DtAS); Schoharie (NYS); Karner, May (NYS); Ellenville (Ndm); Bronxville, Je-Jl, *Woodr* (Ds); **SI**, May-Je (Ds).  
*L. semifasciata* Burm. Rochester (Moore); Buffalo, Je-Jl, *EPV* (Kellicott); Dobbs Ferry, Jl, *Willn* (Calv); Bronxville, May-Jl, *Woodr* (Ds); **SI**, Ap-Sep (Ds); **LI**: Yaphank, Jl (Ds); Wading R., Je (Ds); Aqueduct, Jl (Ds); Rockaway, Je (Woodr).  
*L. vibrans* Fab. **SI**, Je-Aug (Ds).

## PLATHEMIS Hagen

- P. lydia* Dry. (*trimaculata* DeG.). Generally distributed. Keene Valley (Comstock); Old Forge (Ndm); Fairmount, Je (Felt); Olcott, Je-Jl (DtAS); Buffalo, *EPV* (Kellicott); Portageville, Je (Ds); Ithaca (Bks); Brookton (Theresa M. Robinson); Schoharie (NYS); Albany, Je (Felt, Lint-NYS); Stuyvesant Falls (NYS); Beaver Br., Sullivan Co, and Cairo, Aug (Calv); Dobbs Ferry, Je, *Willn* (Calv); NYC (Bt); Bronxville, Je, Van Cort. Pk., *Woodr* (Ds); **SI**, May-Sep (Ds); **LI**: Wyandanch and Yaphank, Jl (Ds); Flushing, Aug (Ds); Bridgehampton, Aug 18 (Calv).

## PERITHEMIS Hagen

- P. tenera** Say. Tarrytown, J1, *Woodr* (Ds); Benmar L., near Brewster. (Ndm); Van Cort. Pk., J1, *Woodr* (Ds); Bronxville, J1-Aug, *Woodr* (Ds); NYC (Bt); **SI**, Je-J1 (Ds); **LI**: Wading R. and Long Pond, Aug (Ds); Shelter I., Aug (Ds); Flushing, Aug (Ds); Prospect Pk. L., Brooklyn, Aug (Ds).

## NANNOTHEMIS Brauer

- N. bella** Uhl. Mt. Marcy, 5000 ft., *Not* (Ds); NYC (Bt); **SI**: Four Corners, Je-J1 (Ds); **LI**: Yaphank and Wyandanch, J1 (Ds).

## ERYTHRODIPLAX Brauer

- E. berenice** Dry. Thousand Isls., *Slosson* (Calv); NYC (Bt); Riverdale, J1, *Woodr* (Ds); **SI**, May-Aug (Ds); **LI**: Sheepshead Bay, J1 (Calv); Aqueduct, J1 (*Woodr*); Rockaway Beach, J1-Aug (Ds); Flushing and Cold Sp. Harb., J1-Aug, *Brb* (Ds); Orient, J1, *Lath* (Ds), and Shelter I., Aug (Ds); Gardiners I., Aug (Ds).

## ERYTHEMIS Hagen

- E. simplicicollis** Say. Saranac Inn (Ndm); Tonawanda R., Aug, *EPV* (Kellicott); Rochester (Moore); Olcott, Je-J1 (DtAS); Ithaca (Ndm); NYC (Bt); **SI**, May, J1-Sep (Ds); **LI**: Wading R., Aug (Ds); Yaphank, J1 (Ds); Riverhead, Aug (Ds); Flushing, Aug (Ds); Bridgehampton, Aug (Calv).

## SYMPETRUM Newman

- S. corruptum** Hagen. Rochester (Moore); Buffalo, *EPV* (Kellicott); **SI**: shore at Ellingville, May (Ds); New Dorp, Aug, and Dongan Hills, Sep (Ds).
- S. costiferum** Hagen. Saranac Inn, Aug (Ndm); Amherst, Sep, *EPV* (Kellicott); **LI**: Wyandanch, Aug, Long Pond, Wading R., J1-Aug, Riverhead, Aug (all Ds).
- S. decisum** Hagen. (See footnote under *S. rubicundulum*.)
- S. obtrusum** Hagen. Waddington, Aug (*Woodr*); Mt. Marcy, Je (NYS); Keene Valley, J1-Aug (Calv); Saranac Inn (Ndm); Piseco and Elk Lakes, Aug (Calv); Hastings, Aug-Sep (Kellicott); Clarence, J1, *EPV* (Kellicott); Elma, Sep, *EPV* (Kellicott); Karner (NYS); **SI**, Je-J1 (Ds).
- S. rubicundulum** Say.<sup>10</sup> Keeseville, J1, *Sheraton* (Calv); Saranac Inn (Ndm); Keene Valley (Comstock); L. St. Regis, Franklin Co, Sep, *Moore* (Calv); Olcott and Howland I., Je-J1 (DtAS); Buffalo, Je-Sep, *EPV* (Kellicott); Ithaca (Bks); Danby and McLean, Je-J1 (DtAS); ponds in Sullivan Co, J1-Aug; Cairo, Aug (Calv); Dobbs Ferry, J1, *Wiln* (Calv); Bronxville, J1 (*Woodr*); NYC (Bt); **SI**, J1-Sep (Ds); **LI**: Coney I., Aug (Weeks); Gardiners I., Aug (Ds).
- S. semicinctum** Say. Waddington, Aug (*Woodr*); Keene Valley (*Not*); Olcott, Aug (DtAS); Castile, *Brad* (Ndm); Ithaca, Aug (Ndm); L. George, Aug (Ndm); Cairo, Aug (Calv); Riverdale, J1, *Woodr* (Ds); Croton, J1 (Ds); Bronxville, Aug, *Woodr* (Ds); Van Cort. Pk., Aug (Ds); **SI**, J1-Sep (Ds); **LI**: Long Pond, Wading R., and Riverhead, Aug (Ds).
- S. vicinum** Hagen. Keeseville, J1-Aug, *Sheraton* (Calv); Saranac Inn (Ndm); Piseco L., Aug (Calv); L. St. Regis, Franklin Co, Sep, *Moore* (Calv); Pt. Abino, *EPV* (Kellicott); Olcott, Sep (DtAS); Ithaca, J1-Aug (Ndm);

<sup>10</sup> "Some of these records doubtless belong to *S. decisum* which has been constantly confused with *S. rubicundulum*,"—E. M. WALKER.

Saratoga L., Aug (Calv); Schoharie (Hagen); Catskills, Aug (Calv-AES); Catskill L. and Cairo, Aug (Calv); Alder L., Ulster Co, Je; ponds in Sullivan Co; West Pt., Oct (Ds); Dobbs Ferry, Nov, *Willn* (Calv); NYC (Bt); Bowling Green, NYC, Oct (Ds); **SI**, Sep-Nov (Ds); **LI**: Yaphank, Oct (Ds). Low wet meadows and along small streams.

#### PACHYDIPLAX Brauer

**P. longipennis** Burm. Black Rock Harb., Je, *EPV* (Kellicott); Rochester (Moore); Olcott, Jl (DtAS); Ithaca (Bks); Dobbs Ferry, Jl, *Willn* (Calv); Benmar L., near Brewster (Ndm); Riverdale, Jl, *Woodr* (Ds); Bronxville, Je (Woodr); NYC (Bt); **SI**, May-Sep (Ds); **LI**: Forest Pk., Brooklyn, Je (Ds); Flushing, Aug (Ds).

#### LEUCORHINIA Brittinger

- L. frigida** Hagen. Adirondacks, near Redfield Mt., Jl (Beq); L. Tear, Jl, *Watson* (Ds); Old Forge (Ndm); Knapp, Hunter, Mud, and Cranberry Ponds, Sullivan Co, Aug (Calv); **SI**: Tottenville, May (Ds); **LI**: Deep and Long Ponds, Wading R., Je (Ds).
- L. glacialis** Hagen. Old Forge (Ndm); Saranac Inn, late Je-early Aug (Ndm).
- L. hudsonica** Selys. Mt. Marcy, 4500 ft. (Not); Old Forge (Ndm).
- L. intacta** Hagen. Waddington, Aug (Woodr); Keeseville, Jl, *Sheraton* (Calv); Rochester (Moore); Olcott, Je-Jl (DtAS); Niagara R. and Black Rock Harb., Je-early Jl, *EPV* (Kellicott); Portage, Je (Ds); Ithaca (Ndm); McLean and Freeville (Ndm); Danby (DtAS); Karner, Jl (Hagen); Croton-on-Hudson, May, *Ds* (Calv); Cinnamon L., Jl (Theresa M. Robinson); Folwood L., Sullivan Co, Je (Calv); Benmar L., near Brewster (Ndm); Bronxville, Je, *Woodr* (Ds); NYC, May-Je, *Woodr* (Ds); **SI**, May-Aug (Ds); **LI**: Rockaway and Wading R., Je (Ds).

#### CELITHEMIS Hagen

- C. elisa** Hagen. Axton, Je (M&H); Ithaca, *Morgan* (Bks); ponds in Sullivan Co, Jl-Aug (Calv); West Pt., Je (Ds); Tarrytown, Jl, *Woodr* (Ds); Pocantico Hills, Je (Woodr); NYC (Bt); Bronxville, Je, *Woodr* (Ds); **SI**, Je-Aug (Ds); **LI**: Yaphank, (Ds); Wading R., May-Je, Aug (Ds); Flushing, Aug (Ds); Montauk, Aug (Ds).
- C. eponina** Drury. Lake Bluff, Wayne Co (NYS); Tarrytown, Jl (Woodr); NYC (Bt); **SI**, May-Aug (Ds); **LI**: Flushing and Cold Sp. Harb., Aug (Ds).
- C. monomelaena** Willn. **LI**: Wading R., Je-Aug, and Riverhead, Aug (Ds).
- C. martha** Willn. (*ornata* Ramb.). **LI**: Yaphank, Jl-Aug (Ds); Wyandanch, Aug (Ds); Wading R. and Long Pond, Aug (Ds); Riverhead, Aug (Ds). A species of the pine-barren regions of LI (Ds).

#### PANTALA Hagen

**P. flavescens** Fab. Rochester (Moore); Bronxville, Jl (Woodr); **SI**, Jl-Sep (Ds).

#### TRAMEA Hagen

- T. carolina** L. Schoharie (NYS); NYC (Bt); Bronxville, May, *Woodr* (Ds); **SI**, Ap-Oct (Ds); **LI**: Yaphank, Jl (Ds); Wading R., Aug (Ds); Bridgehampton, Aug (Calv).
- T. lacerata** Hagen. Rochester (Moore); Buffalo, Aug, *EPI* (Kellicott); Freeville, May (Bks); West Pt., Je (Ds); **SI**, May-Oct (Ds).



## ORDER PLECOPTERA

Compiled by J. G. NEEDHAM and P. W. CLAASSEN

## FAMILY PTERONARCIDAE

## PTERONARCYS Newman

- P. dorsata* Say. "NY" (LucyW.Smith).  
*P. nobilis* Hagen. General throughout NY, and ranging from Canada to Ga (*Ndm*).  
*P. proteus* Newm. Trenton Falls; Ithaca.  
*P. biloba* Newm. Trenton Falls; Ithaca.  
*P. comstocki* Smith. Trenton Falls; Wilmurt; Tarbel, *Ds*.

## FAMILY PERLIDAE

## PERLODES Banks

- P. lineata* Smith. Old Forge, Aug (*Ndm*).

## ISOGENUS Newman

- I. frontalis* Newm. Niagara Falls, Je.

## PERLA Geoffroy

- P. postica* Wlk. Fall Cr., Ithaca, May (*Ndm*); Ft. Montgomery, May.  
*P. hastata* Bks. Axton, Je (M&H); Old Forge, Aug (*Ndm*); Woodworth's L., Je, *Alex*; Easton, May, *Leon*; Ringwood Hollow, near Ellis, May, *Wu*.  
*P. bilobata* Ndm. & Claas. Old Forge, Jl (*Ndm*).  
*P. capitata* Pict. West Branch of Ausable R., Essex Co, Jl (*Claas*); Ogdensburg, Jl, *Bet*; Gloversville, Je, *Alex*; N. Fair Haven; Clyde, Jl; West Falls, Jl; Ithaca, May-Jl; McLean, Je; Malloryville, Je; Binghamton, Jl; Nassau, Je.  
*P. ramosa* Ndm. & Claas. Ithaca (CU).  
*P. immarginata* Say. Keene Val., Aug; Wilmington, Aug; Mt. Whiteface, Aug; Ogdensburg, Jl; Hamilton Co; Enfield; Gloversville, Je, *Alex*; Ithaca, Mar-Sep; Coy Glen, Ithaca, Jl; Ludlowville, Aug.  
*P. media* Wlk. Ogdensburg, Jl; Crane Pond, Je; Wilmurt, Je; Mayfield, Je, *Alex*; Oswego, Je; Fulton, Je; Niagara Falls, Jl; Buffalo, Jl; Ithaca, May.

## ALLOPERLA Banks

- A. marginata* Bks. Colden, Jl (Bks); Ithaca, Je, *Sib*.  
*A. lateralis* Bks. Gloversville, Je, and Woodworth's L., Je, *Alex*; Mix Cr. Val., Cattaraugus Co, Je; Ithaca, May-Je; De Ruyter, Je; Danby, Je; Ramapo, Je.  
*A. mediana* Bks. Newport, May; Cranberry L., Jl (*Drk*); Gloversville, Je, *Alex*; Clinton, May, *Powell*; Enfield Falls and Ithaca, May; Niagara Falls, Je.  
*A. imbecilla* Say. Alcohol Br., Adirondack Lodge, Jl; Sacandaga Pk., Je; Newfield, Je.  
*A. nanina* Bks. West Branch, Ausable R., Jl; Elizabethtown, Jl; Adirondack Lodge, Jl; Ithaca, May-Jl; Oxford, Jl.

**CHLOROPERLA** Newman

- C. cydippe** Newm. Sport I., Je, *Alex*; Hamburg, J1; Ithaca, Je; Newfield.

**NEOPERLA** Needham

- N. clymene** Newn. Charlotte, Je; West Falls, J1; Martinsburg, J1 (Sib); Ithaca, Je-Sep; Ancram, Je; Ft. Montgomery, J1.

**CLIOPERLA** Needham and Claassen

- C. similis** Hagen. Moore's Br., near Ithaca, May, *Sib*; Ringwood Hollow, near Ellis, Ap (*Claas*).  
**C. annecta** Ndm. & Claas. Black Br., Je, *Cy*.

**ISOPERLA** Banks

- I. signata** Bks. Elizabethtown, J1 (*Claas*); Clinton, May, *Powell*; Woodworth's L., Je, *Alex*; Buffalo, J1; Ithaca, May-Je; Ringwood, May (Dt); Greene Co, Je.  
**I. bilineata** Say. A common eastern species, found everywhere in small streams. Ithaca, Je-Aug.  
**I. montana** Bks. Ogdensburg, J1; Gloversville, Je, *Alex*; Lakeside, Je; Ithaca, May-Je (Ellis); Coy Glen, Je; Slaterville, Je; Enfield, May; Moore's Br., near Ithaca, May, *Sib*; Taughannock Falls, May (Dt); Newfield, Je.

**PERLESTA** Banks

- P. placida** Hagen. Youngstown, J1, *Alex*; Ithaca, May-Aug.

**ATOPERLA** Banks

- A. ephyre** Newm. Canandaigua L., Naples, J1, *Leon*; Ithaca, Je-J1.

**PERLINELLA** Banks

- P. drymo** Newm. Deer R., May; Sport I., Sacandaga R., Je, *Alex*; Ithaca, May-J1.

**PELTOPERLA** Needham

- P. cornelia** Ndm. and Smith. Ramapo, May (Ds).  
**P. arcuata** Ndm. Ithaca, Je (Pettit-CU).

**ACRONEURIA** Pictet

- A. abnormis** Newn. Keene Val., Je; Oswegatchie; North Cr., J1; Sacandaga Pk., Je, *Alex*; Ithaca, Je-Aug; Greene Co, Je.  
**A. arenosa** Pict. Ithaca, J1; **LI**.  
**A. trijuncta** Wlk. Juanita I., L. George.  
**A. arida** Hagen. Ithaca, Je.  
**A. lycorias** Newn. Artist's Br., Chapel Pond, Essex Co, Je (*Claas*); Gloversville, Je, *Alex*; Castile; Colden, Je (EPV); Otto, Je; McLean Bogs, Je; Ithaca, May-J1; The Hermitage, Cayuga L. (Bet); Trenton Falls, type locality; Ft. Montgomery, May; Ramapo, May.

## FAMILY NEMOURIDAE

## NEMOURA Latreille

- N. divergens** Claas. Clinton, Mar (Powell-CU); Ithaca, Ap.  
**N. sinuata** Wu. Alcohol Br., Adirondack Lodge, J1; Newcomb, J1; Cranberry L., Je, *Drk*; Old Forge, J1-Aug; Gloversville, Je; Ithaca, Je-Aug (CU); Etna; McLean; Greene Co.  
**N. venosa** Bks. Alcohol Br., Adirondack Lodge, J1 (*Claas*); Newport, May; Cranberry L., Je, *Drk*; Old Forge, Je (*Ndm*); Woodworth's L., Je-Aug, *Alex*; Colden, Je (Bks); Ringwood, Je; Enfield Glen, May; McLean, Je; W. Danby, Je (MacG).  
**N. trispinosa** Claas. Mud Cr., Tompkins Co, Je (CU); McLean, Je.  
**N. vallicularia** Wu. Ilion, Mar; Clinton, Ap; Ithaca, Ap-May (CU); Nassau, Mar; Mosholu, Mar.  
**N. serrata** Claas. Cranberry L., *Drk* (CU).  
**N. punctipennis** Claas. Axton, Je (M&H); Old Forge, Je.

## LEUCTRA Stephens

- L. decepta** Claas. Old Forge, Je; Ringwood, Je (CU).  
**L. duplicata** Claas. Adirondack Lodge, Je; Axton, Je (M&H); Woodworth's L., Je; Labrador L., Cy; Chipmunk Swamp, Vandalia, Je; Ringwood, May.  
**L. hamula** Claas. Mt. Marcy, Aug; Old Forge, J1 (CU); Sacandaga Pk., *Alex*; Woodworth's L., Je.  
**L. sibleyi** Claas. Moore's Br., Ithaca, May (Sib); Taughannock, May.  
**L. tenuis** Pict. Wilmington; Saranac Inn, J1; Woodworth's L., May, *Alex*; West Falls.  
**L. triloba** Claas. McLean, Sep-Oct (Jensen-CU); Ithaca, Sep.  
**L. truncata** Claas. Old Forge, Aug (CU).

## TAENIOPTERYX Pictet

- T. maura** Pict. Gloversville, Mar, *Alex*.  
**T. nivalis** Fitch. Adams Center, Mar (*Claas*); Honeoye Falls, Mar, Cy; Pike, Mar; Ithaca, Feb-Mar; Binghamton, Ap; Albany, Mar-Apr.  
**T. fasciata** Burm. Hamburg, Ap (EPV); Ithaca, Mar-Apr; Karner, Ap; E. Greenburgh, Ap.

## FAMILY CAPNIIDAE

## CAPNIA Pictet

- C. vernalis** Newport. Mountain L., Ap (*Claas*); Gilman L., Ap (*Claas*); Clinton, Mar, *Powell*; Coy Glen, Mar; Highland, Mar.

## CAPNELLA Claassen

- C. granulata** Claas. Adams Center, Mar (*Claas*); Johnstown, Mar (CU); Fulton Co, *Alex*.  
**C. recta** Claas. Ithaca, Mar (CU); Interlaken, Nov.  
**C. incisura** Claas. Ithaca, Mar (CU).  
**C. vivipara** Claas. Bluff Pt., Ithaca, Mar.  
**C. pygmaea** Burm. Northville, Ap; Pike, Ap-May; Ithaca, Feb-Apr; McLean, May; Mosholu, Mar; **SI**, Feb.

## ORDER CORRODENTIA

Compiled by P. J. CHAPMAN and A. M. NADLER

## FAMILY PSOCIDAE

## SUBFAMILY PSOCINAE

## CERASTIPSOCUS Kolbe

**C. trifasciatus** Prov. "NY" (Bks).**C. venosus** Burm. Westport, Aug (*Felt*); Newport, Aug (*Felt*); Johnstown, Aug (*Bks*); Grand Gorge, Aug (*Felt*); Ithaca, Aug (Chap-AM); Middleburg (Chap-NYS); Berne, Aug (*Felt*); Ellenville, J1 (*Nad*); **LI**: Quogue, Aug (*Zab*-AM).**Psocus** Latreille**P. amabilis** Walsh. Geneseo, Sep; Olcott, Sep; Barcelona, Sep; Silver Cr., Sep; Richburg, Sep; Clarksburg, Sep; Stow, Sep; Ceres, Sep; Rock City, Sep; Painted Post, Sep; Ithaca, Sep; Elmira, Oct; (all *Chap*); **LI**: Sea Cliff, Sep (*Chap*). In dead or dying leaves.**P. atratus** Aaron. Sacandaga Pk., Aug, *Alex* (Bks); Painted Post, Sep (*Chap*). On tree trunks.**P. leidy** Aaron. Woodworth's L., Fulton Co, Aug, *Alex* (Bks); L. Placid, Aug, *EPV* (NYS); Fairhaven, Sep; Clarksburg, Sep; Wellsville, Sep; Richburg, Sep; Stow, Sep; Ceres, Sep; Geneseo, Sep; Hornell, Sep; Painted Post, Sep; Montour Falls, Sep-Oct; Ithaca, Sep-Oct; Elmira, Oct; McLean, Aug; Hunter, Aug (all *Chap*); Ellenville, J1 (*Nad*); Bronx, J1, *Grossb* (*Chap*); **LI**: Sea Cliff, Sep (*Chap*). On tree trunks.**P. moestus** Hag. Stow, Sep; Wellsville, Sep; Clarksburg, Sep; Hornell, Sep; Painted Post, Sep; Hall, J1; Ithaca, Sep (all *Chap*); **LI**: Sea Cliff, Sep (*Nad*); Riverhead, Oct (*Chap*).**P. novaescotiae** Wlk. L. Placid, Aug, *EPV* (NYS); Painted Post, Sep (*Chap*); Ithaca, Sep (*Chap*).**P. pollutus** Walsh. Sacandaga Pk., Gloversville, Aug, *Alex* (Bks).**P. purus** Walsh. Fairhaven, Sep (*Chap*); Ithaca, Aug, *Bks* (*Chap*); Cairo, Aug (*Chap*). Under loose stones and on tree trunks.**P. quietus** Hag. Phoenicia, Aug, *EPV* (NYS).**P. semistriatus** Walsh. **LI**: Sea Cliff, Aug (Bks).**P. stigmatosalis** Bks. Gloversville, Sep, *Alex* (Bks); **LI**: Sea Cliff, Sep (*Nad*).**P. striatus** Wlk. Ithaca, Aug-Sep (US); Van Cort. Pk., Sep; **LI**: Sea Cliff, Sep (*Nad*).**P. variabilis** Aaron. Johnstown, Aug (*Bks*); Larchmont, J1 (*Nad*).**AMPHIGERONTIA** Kolbe**A. confraterna** Bks. (*Psocus*). Sacandaga Pk., Je (Bks); West Barre, Sep; Little Valley, Sep; Wellsville, Sep; Rock City, Sep; Ceres, Sep; Stow, Sep; Richburg, Sep; Painted Post, Sep; (all *Chap*); Phoenicia, Aug, *EPV* (NYS); Larchmont, J1 (*Nad*).**TRICHADENOTECNUM** Enderlein**T. slossonae** Bks. (*Psocus*). Ithaca, Sep (Bks); Ellenville, J1 (*Nad*).

## FAMILY CAECILIIDAE

## SUBFAMILY CAECILIINAE

## CAECILIUS Curtis

- C. aurantiacus** Hag. Speculator, Jl, L. Placid, Aug, *EPV* (NYS); Woodworth's L., Aug, *Alex* (Bks); Olcott, Aug, Cinnamon L., Jl, Montour Falls, Sep, Howard, Jl, Louck's Pond, Steuben Co (*Chap*); Hammondsport, Jl, Freeville, Oct, *Cy* (*Chap*); Penn Yan, Jl-Aug, Enfield Glen, Aug, Ithaca, Jl-Aug, Danby, Oct, Woodwardia Swamp, Aug, Catskill, Hunter, Aug (*Chap*); Larchmont, Je-Jl (*Nad*); Ellenville, Jl (*Nad*); **LI**: Sea Cliff, Sep (*Nad, Chap*).
- C. confluens** Walsh. Fair Haven, Sep, Ithaca, Sep, Woodwardia Swamp, Tompkins Co, Aug (*Chap*); Hunter, Aug (*Chap*); **LI**: Sea Cliff, Sep, *Nad* (*Chap*).
- C. posticus** Bks. **LI**: Sea Cliff, Aug (Bks).
- C. umbrosus** Bks. Hillside, *Alex* (Bks); **LI**: Sea Cliff (Bks).

## LACHESILLA Westwood

(*Pterodela* Kolbe)

- L. pedicularia** L. Gloversville, Aug-Sep (Bks); Ithaca, Aug (AM).
- L. rufa** Walsh. Larchmont, Je (*Nad*).

## SUBFAMILY POLYPSOCINAE

## POLYPSOCUS Hagen

- P. corruptus** Hag. Johnstown, Aug (Bks); Hamburg, Jl, *EPV* (NYS); Letchworth Pk., Jl, *Cy* (*Chap*); Wells, Jl, *Yg* (*Chap*); Montour Falls, Sep (*Chap*); Ithaca, Enfield Glen, Aug (*Chap*); Albany (Chap-NYS); Poughkeepsie, Je, *Yg* (*Chap*); **LI**: Sea Cliff, Sep (*Nad*).

## SUBFAMILY PERIPSOCINAE

## PERIPSOCUS Hagen

- P. madidus** Hag. Speculator, Aug, *EPV* (NYS); Saranac Inn, Jl (Ndm); L. Placid (*EPV*); Wells, Jl, *Yg* (NYS); Avalanche L., Essex Co, *Cy&Bish* (*Chap*); Mt. McIntyre, *Cy&Bish* (*Chap*); Woodworth's L., Aug (Bks); Fair Haven, Sep (*Chap*); Cinnamon L., Jl, Penn Yan, Aug, Montour Falls, Sep, Ithaca, Jl-Sep, Danby, Oct, McLean, Jl-Sep, Howard, Jl, Enfield Glen, Aug, Hunter, Aug (*Chap*); High Falls, Je, Ellenville, Jl (*Nad*); **LI**: Sea Cliff, Sep (*Nad*).
- P. permadidus** Walsh. L. Placid, Speculator, Aug, *EPV* (NYS); Ellenville, Jl (*Nad*); **LI**: Sea Cliff, Sep (*Nad*).

## FAMILY MYOPSOCIDAE

## SUBFAMILY MYOPSOCINAE

## LICHENOMIMA Enderlein

- L. lugens** Hag. Ithaca, Woodwardia Swamp, Tompkins Co, Aug (*Chap*).
- L. sparsa** Hag. Ithaca, Aug (*Chap*); Hunter, Aug (*Chap*); Poughkeepsie, Aug (Chap-NYS).



## FAMILY MESOPSOCIDAE

## SUBFAMILY MESOPSOCINAE

## MESOPSOCUS Kolbe

- M. unipunctatus** Mull. Sacandaga Pk., Je, *Alex* (Bks); Newport, Je (Chap-NYS); Cinnamon L., Jl (*Chap*); McLean, Je-Jl, *Sib* (Chap); Karner (Chap-NYS); Howard, Jl (*Chap*); Larchmont, Je (Nad).

## ELIPSOCUS Hagen

- E. pumilis** Hag. "NY" (Hag).

## PHILOTARSUS Kolbe

- P. maculosus** Aaron (*Elipsocus*). Montour Falls, Sep (*Chap*).

## FAMILY LEPIDOPSOCIDAE

## ECHMEPTERYX Aaron

- E. hageni** Pck. L. Placid, Aug, *EPV* (NYS); Fair Haven (*Chap*); Johnstown, Aug, *Alex* (Bks); Montour Falls, Sep (*Chap*); Ithaca, Jl-Aug, Hunter, Aug (*Chap*); Ellenville, Jl (Nad); **LI**: Riverhead, Oct (*Chap*).

## FAMILY PSYLLIPSOCIDAE

## PSYLLIPSOCUS Selys

- P. ramburi** Selys. NYC, Jan, Je (Felt); Manhattan, Jl (Nad); **LI**: Brooklyn, Je-Jl (*Nad*).

## NYMPHOPSOCUS Enderlein

(*Ocellataria* Weber)

- N. gravinympha** Web. **LI**: Brooklyn, throughout the year (Nad).

## FAMILY PSOQUILLIDAE

## DORYPTERYX Aaron

- D. pallida** Aaron. Ithaca, Aug-Oct, in old papers and books (*Chap*).

## FAMILY TROGIIDAE

## SUBFAMILY TROGIINAE

## TROGIUM Illiger

- T. pulsatorium** L. The so-called "deathwatch." Hunter, Aug (*Chap*); **LI**: Sea Cliff, Sep, *Nad* (*Chap*).

## FAMILY LIPOSCELIDAE

## LIPOSCELIS Motschulsky

(Troctes Burmeister)

- L. divinatorius* Mull. Fayetteville, Mar (Chap); Ithaca, May, in nests of English sparrow (*Chap*); Otsego (Lint); Albany, Oct (Felt); Wakefield, Oct (Felt); NYC (Felt).

ORDER MALLOPHAGA<sup>11</sup>

Compiled by F. H. WILSON

## SUBORDER AMBLYCERA

## FAMILY MENOPONIDAE

## MENOPON Nitzsch

- M. aegialitidis* Durr. Hebron, Sep, on killdeer (*Oxyechus vociferus vociferus* L.).  
*M. leucoxanthum* Nitz. Ithaca, Oct, on black duck (*Anas rubripes* Brewst.).  
*M. stramineum* Nitz. (*biseriatum* Piaget). LARGE BODY LOUSE. General throughout the State, on hen (Herr); also Ithaca, Ap, on captive ring-necked pheasant (*Phasianus torquatus* Gmel.) (Herr) and domestic turkey.  
*M. pallidum* Nitz. COMMON HEN LOUSE. General throughout the State, on hen (Herr), ring-necked pheasant, and guinea fowl.

## MYRSIDEA Waterston

- M. subaequalis* Lyonet. Ithaca and Hebron, on crow (*Corvus brachyrhynchos brachyrhynchos* Brehm) and red-shouldered hawk (*Buteo lineatus lineatus* Gmel.).

## COLPOCEPHALUM Nitzsch

- C. laticeps* Kell. L. Cossayuna, Sep, on great blue heron (*Ardea herodias herodias* L.).  
*C. pustulosum* Piaget. Ithaca, Sep, on pectoral sandpiper (*Pisobia maculata* Vieill.).

## TRINOTON Nitzsch

- T. querquedulae* L. (*luridum* Nitz.). Ithaca, on redhead (*Marila americana* Eyt.), pintail (*Dafila acuta* L.), and wood duck (*Aix sponsa* L.); Hebron, Sep, on green-winged teal (*Nettion carolinensis* Gmel.).

## PSEUDOMENOPON Mjöberg

- P. pacificum* Kell. Ithaca, on coot (*Fulica americana* Gmel.) and pied-billed grebe (*Podilymbus podiceps* L.).

<sup>11</sup>The order of arrangement of families and genera here is that adopted by L. Harrison in his article entitled "The Genera and Species of Mallophaga," in *Parasitology*, vol. 9, p. 1-156, 1916. The species are arranged alphabetically in each genus. The list is based upon careful collecting by Mr. Wilson (chiefly at Hebron and at Ithaca), upon material already in the Cornell collection, and upon such published records as seemed trustworthy.

## FAMILY RICINIDAE

## RICINIUS DeGeer

**R. leptosomus** Carriker. Ithaca, on kingbird (*Tyrannus tyrannus* L.).

**R. lineatus** Osb. Recorded from Ithaca by Osb., on ruby-throated humming bird (*Archilochus colubris* L.).

## TROCHILOECETES Paine and Mann

**T. prominens** Kell. & Chap. Ithaca, on ruby-throated humming bird.

## SUBORDER ISCHNOCERA

## FAMILY TRICHODECTIDAE

## TRICHODECTES Nitzsch

**T. bovis** L. (*scalaris* Nitz.). BITING CATTLE LOUSE. Common throughout the State, on domestic cattle.

**T. equi** L. BITING HORSE LOUSE. Probably common throughout the State, on horse, but definitely recorded only from Ithaca.

**T. ovis** L. (*sphaerocephalus* Olfers). N. Blenheim and Liberty, on sheep (Lint. Rept. 1889).

**T. subrostratus** Nitz. Probably common throughout the State, on cat, but definitely recorded only from Ithaca.

## FAMILY PHILOPTERIDAE

## SUBFAMILY GONIODINAE

## GONIODES Nitzsch

**G. dissimilis** Nitz. Malone, Ap, on ring-necked pheasant (*Phasianus torquatus* Gmel.).

**G. meleagridis** L. (*stylifer* Nitz.). Ithaca, common on domestic turkey (Herr).

## GONIOCOTES Burmeister

**G. bidentatus** Scop. (*compar* Nitz.). Ithaca, very common on domestic pigeon (Herr).

**G. gigas** Tasch. Ithaca, on hen and guinea fowl, but not common (Herr).

**G. hologaster** Nitz. LESSER CHICKEN LOUSE. Ithaca, fairly common on hen, and probably widely distributed throughout the State.

## SUBFAMILY PHILOPTERINAE

## PHILOPTERUS Nitzsch

**P. agelaii** Osb. Ithaca, on red-winged blackbird (*Agelaius phoeniceus phoeniceus* L.).

**P. ceblebrachys** Nitz. Avon, Jan, on snowy owl (*Nyctea nyctea* L.), GAFrench.

**P. corvi** Osb. Ithaca and Hebron, on crow (*Corvus brachyrhynchos brachyrhynchos* Brehm).

**P. cursor** Nitz. Ithaca, on barred owl (*Strix varia varia* Barton).

- P. dentatus** Scopoli (*icterodes* Nitz.). Ithaca, on domestic duck (*Anas domestica*), canvasback (*Marila vallisneria* Wils.), redhead (*M. americana* Eyt.), greater scaup duck (*M. marila* L.), old squaw (*Harelda hyemalis* L.), king eider (*Somateria spectabilis* L.), Canada goose (*Branta canadensis canadensis* L.), mallard (*Anas platyrhynchos* L.), black duck (*Anas rubripes* Brewst.), and pintail (*Dafila acuta* L.); Hebron, on green-winged teal (*Nettion carolinensis* Gmel.); NY, on hooded merganser (*Lophodytes cucullatus* L.).
- P. jungens** Kell. Ithaca, on northern flicker (*Colaptes auratus luteus* Bangs).
- P. major** Waterston. Lansing and Ithaca, on Wilson's snipe (*Gallinago delicata* Ord.).
- P. pertusus** Nitz. Ithaca, on coot (*Fulica americana* Gmel.).
- P. quiscali** Osb. Ithaca, on bronzed grackle (*Quiscalus quiscula aeneus* Ridgw.).

## DEGEERIELLA Neumann

- D. boephila** Kell. Hebron, on killdeer (*Oxyechus vociferus vociferus* L.).
- D. cedrorum** Piaget. Hebron, on cedar waxwing (*Bombycilla cedrorum* Vieill.).
- D. fusca** Nitz. Hebron, on red-shouldered hawk (*Buteo lineatus lineatus* Gmel.).
- D. interrupta** Piaget. L. Cossayuna, on solitary sandpiper (*Helodromas solitarius solitarius* Wils.).
- D. illustris** Kell. Ithaca, on red-winged blackbird (*Agelaius phoeniceus phoeniceus* L.), bobolink (*Dolichonyx oryzivorus* L.), and bronzed grackle (*Quiscalus quiscula aeneus* Ridgw.).
- D. nebulosa** Burn. Ithaca, on starling (*Sturnus vulgaris* L.) and robin (*Planesticus migratorius migratorius* L.).
- D. ornatissima** Giebel. Ithaca, on red-winged blackbird.
- D. vulgata** Kell. Hebron, on English sparrow (*Passer domesticus domesticus* L.).

## RALLICOLA Johnston and Harrison

- R. advena** Kell. Ithaca, on coot (*Fulica americana* Gmel.) and bufflehead (*Charitonetta albeola* L.).
- R. bisetosa** Piaget var. *californica* Kell. Ithaca and Hebron, on Virginia rail (*Rallus virginianus* L.) (Kell & Chap.).

## SUBFAMILY ACIDOPROCTINAE

## ACIDOPROCTUS Piaget

- A. kelloggi** Carr. Ithaca, on canvasback (*Marila vallisneria* Wils.).

## ORNITHOBIUS Denny

- O. goniopleurus** Denny. Ithaca, on Canada goose (*Branta canadensis canadensis* L.).

## SUBFAMILY ESTHIOPTERINAE

## ESTHIOPTERUM Harrison

- E. anseris** L. (*jejunum* Nitz.). Ithaca, on domestic goose (*Anser domesticus* (Herr)).
- E. columbae** L. (*baculum* Nitz.). Rochester, French; Ithaca (Herr). On domestic pigeon.

- E. botauri** Osb. Hebron, on American bittern (*Botaurus lentiginosus* Montag.).  
**E. comstocki** Kell. & Chap. Ithaca and Hebron, on Virginia rail (*Rallus virginianus* L.) (Kell & Chap).  
**E. crassicornis** Scop. (*squalidum* Nitz.). Ithaca, on king eider (*Somateria spectabilis* L.), mallard (*Anas platyrhynchos* L.), black duck (*Anas rubripes* Brewst.), pintail (*Dafila acuta* L.), and redhead (*Marila americana* Eyt.); W. Hebron, on green-winged teal (*Nettion carolinensis* Gmel.).  
**E. infuscatum** Osb. Ithaca, on American woodcock (*Philohela minor* Gmel.).  
**E. luridum** Nitz. Ithaca, on coot (*Fulica americana* Gmel.).  
**E. thoracicum** Piaget. Ithaca, on bufflehead (*Charitonetta albeola* L.).

#### LIPEURUS Nitzsch<sup>12</sup>

- L. caponis** L. (*variabilis* Nitz.). VARIABLE HEN LOUSE. Generally distributed throughout the State, on hen; also taken at Newfield on ring-necked pheasant (*Phasianus torquatus* Gmel.).  
**L. gallipavonis** Geoff. (*polytrapesius* Nitz.). SLENDER TURKEY LOUSE. Ithaca, common on domestic turkey (Herr).  
**L. heterographus** Nitz. CHICKEN HEAD-LOUSE. Recorded definitely only from Ithaca, but common throughout the State, on hen (Herr).

### ORDER THYSANOPTERA

Compiled by J. DOUGLAS HOOD and GLENN W. HERRICK

While the present list of New York thrips is nearly twice as long as that of Hinds for all of North America (Proc. U. S. Nat. Mus., vol. 26, p. 79-242, 1902), it certainly represents not more than half of the species which could be taken in a few months of really careful collecting. New York material of the group would be welcome indeed, and collectors are urged to send specimens (preferably in 80-per-cent alcohol) to the compilers of this list, for identification.

The first attempt to compile a list of New York Thysanoptera was made by Jacobus C. Faure, now Professor of Entomology in the Transvaal University College, Pretoria, Union of South Africa, while he was an undergraduate student at Cornell University. Mr. Faure collected about thirty species, most of which had not previously been taken in the State.

#### SUBORDER TEREBRANTIA

#### Superfamily AEOLOTHRIPOIDEA

#### FAMILY AEOLOTHRIPIDAE

#### AEOLOTHRIPS Haliday

- A. albicinctus** Hal. Canastota, J1-Aug, on corn leaves, *Faure* (Hd); Macedon, Je, common on grass (*Hd*); Elmira, J1, on onion, *Faure* (Hd); Chester, Aug, on onion, *Faure* (Hd); Ithaca, May, on Pinus, *Babiy* (Hd), and in sweepings from grass (*Hd*).

<sup>12</sup> The genus *Lipeurus* is placed by Harrison in the subfamily Goniiodinae.



- A. bicolor** Hinds. Ithaca, on red clover, *Wehrle* (Herr); Chester, on onion, *Faure* (Hd).
- A. nasturtii** Jones. Ithaca, May, in sweeping grass (*Hd*).
- A. fasciatus** L. Cranberry L., Je, *Drk* (WatsonJR); Sodus Pt., Aug, in dandelion flowers (*Hd*); Macedon, Je-Oct, abundant on onion, feeding on *Thrips tabaci* (*Hd*); Ithaca, May, in sweeping (*Hd*); Geneva, Jl, on cherry foliage, *GlasgowH* (Hd); Canastota, Aug, on clover, *Faure* (Hd); Elmira, Jl, on onion, *Faure* (Hd); Pine L., Aug, on onion, *Faure* (Hd); Chester, Aug, on onion, *Faure* (Hd); Pulaski, Je, on grass, *Babiy* (Herr).
- A. melaleucus** Hal. (*annectans* Hd.). Macedon, Je, on *Tilia* (*Hd*); Monsey, Jl, on foliage of pear, *GlasgowH* (Hd).

### Superfamily THRIPOIDEA

#### FAMILY THRIPIDAE

##### HETEROTHRIPS Hood

- H. limbatus** Hd. Macedon, Je, in flowers of wild cherry (*Hd*).
- H. arisaemae** Hd. Macedon and McLean, May, in flowers of Jack-in-the-pulpit (*Hd*).
- H. azaleae** Hd. Suffern, May, in flowers of Azalea, *KalmbachER* (Hd).

##### HELIOTHRIPS Haliday

- H. femoralis** Reut. Ithaca, in greenhouses, Ap-Jl, on a large variety of plants, *div.* (Hd and Herr).
- H. haemorrhoidalis** (Bouché). THE GREENHOUSE THIRIPS. Watkins, Jl, presumably in greenhouse (Felt); Ithaca, in greenhouses, Jan, on fern, *Faure* (Hd), May, on Croton, *Griswold* (Hd).

##### PARTHENOTHRIPS Uzel

- P. dracaenae** (Heeger). Ithaca, in greenhouses, Mar, *Faure* (Hd), Ap, on calla lily, *Joh* (Hd), May, on palm, *Griswold* (Hd), Nov, Dec, on banana and Anthurium (*Herr*); Ogdensburg, on palm and rubber plant in greenhouse, *LawrenceFW* (Hd).

##### SERICOTHRIPS Haliday

- S. cingulatus** Hinds. Ithaca, May, in stomach of very young trout, *Pck* (Hd). A grass species.

##### ECHINOTHRIPS Moulton

- E. subflavus** Hd. Little Valley, Sep, under bark of beech sapling, *Chap* (Hd).

##### LIMOTHRIPS Haliday

- L. cerealium** Hal. Sheldrake, Aug, on oats (*Herr*); **LI**: Riverhead, Jl, in flight, abundant, *RussellHM* (Hd).
- L. denticornis** Hal. Macedon, in winter hibernating under bark of willow and in fallen leaves, in summer abundant on wheat and grasses (*Hd*); Ithaca, on wheat, *RiesD* (Hd), in fallen leaves, Mar-Apr, *BarnesTC* (Hd), in robin's nest, Mar, *Dobroscky* (Hd), on grass, Je (*Hd*); McLean, on grass, *Babiy* (Herr).

## CHIROTHRIPS Haliday

- C. manicatus** Hal. Rochester, Jl, in heads of *Dactylis glomerata* (Hd); Canastota, Jl, in milkweed flower, *Faure* (Hd); Macedon, Je, on wheat (Hd); Elmira, Jl, on tobacco, *Faure* (Hd); Ithaca, May, in stomach of very young trout, *Pck* (Herr), Je, on grass (Hd); Slaterville, May, on grass (Hd); McLean, May, on grass (Hd).
- C. obesus** Hinds. Canastota, Jl, on grass, *Faure* (Hd).

## APTINOTHRIPS Haliday

- A. rufus** (Gmelin). Canastota, Nov, on grass, *Faure* (Hd); Macedon, May-Je, on wheat and grass (Hd); **LI**: Riverhead, Je, on grass, *RussellHM* (Hd).
- A. rufus** forma **styliifera** Trybom. McLean, May, common on grass, *Leon&Hd* (Hd).

## ANAPHOTHRIPS Uzel

- A. obscurus** (Müller). THE GRASS THRIPS. Albion, Jl (Felt); Macedon, Oct, on corn (Hd); Canastota, Jl, Nov, on grass, *Faure* (Hd); Taughannock, Jl, on heads of timothy (Herr); Ithaca, Je, on grass (Hd); **LI**: Riverhead, Je, on grass, *RussellHM* (Hd); Cold Sp. Harb., Je, *And* (Hd).

## SCOLOTHRIPS Hinds

- S. 6-maculatus** (Perg.). Chester, Aug, on elm leaves, predacious on mites, *Faure* (Hd).

## FRANKLINIELLA Karny

- F. fusca** (Hinds) (*Scirtothrips ovreyi* Watson). THE TOBACCO THRIPS. Wells, May, on buttercup, *Yg* (Hd); Elmira, Jl, on tobacco, *Faure* (Hd); Florida, Aug, on onion, *Faure* (Hd); Chester, Aug, on grass, *Faure* (Hd).
- F. tenuicornis** (Uzel) (*nervosa* Uzel, *maidis* Beach). Canastota, Jl, on corn, *Faure* (Hd); Macedon, May-Oct, common on wheat and corn (Hd); Elmira, Jl, on tobacco, *Faure* (Hd).
- F. tritici** (Fitch). "NY" (Fitch); Speculator, May, on strawberry, *Yg* (Hd); Williamson, Je, on *Ranunculus bulbosus*, *Faure* (Hd); Macedon, May-Oct, on flowers and foliage of various plants (Hd); Ithaca, Aug, on red clover, *Wehrle* (Herr); Taughannock, Jl, on *Hypericum* (Herr); McLean, May, in catkin of willow (Hd); **LI**: Riverhead, Aug, on various plants, *RussellHM* (Hd).
- F. stylosa** Hd. Suffern, May, on Azalea and dogwood, *KalmbachER* (Hd).

## TAENIOTHRIPS Amyot and Serville

- T. salicis** (Reut.). Slaterville, May, on *Salix* (Hd).
- T. inconsequens** (Uzel) (*Euthrips pyri* Daniel). THE PEAR THRIPS. Macedon, May-Je, on wild and cultivated cherry (Hd); Batavia, May, on pear, *Faure* (Hd); E. Bethany, May, on apple foliage, *Herr* (Hd); Geneva, Ap, *GlasgowH*, and May, *ParrottPJ*, on apple (Hd); Ithaca, May, on pear (Herr); Ravena and Athens (Felt); Tivoli, May, on pear, *Rupert* (Herr); Ulster Co, Ap, *MillsWD* (Hd).

## CTENOTHRIPS Franklin

- C. bridwelli** Frankl. Rose, May, on leaves of *Cypripedium hirsutum*, *WeedAC* (Hd); Macedon, May, on leaves of *Podophyllum peltatum* (Hd); Ithaca, Je, on *Podophyllum peltatum*, *Herr* (Hd), Jl and Sep, on skunk cabbage (*Herr*); Taughannock, Jl, on *Trillium* (*Herr*); Ludlowville, May, on skunk cabbage (Hd); McLean, May, on May apple and skunk cabbage, *Leon&Hd* (Hd).

## THRIPS Linnaeus

- T. impar** Hd. Macedon, Aug, on *Impatiens* (Hd); McLean, Sep, on flowers and leaves of *Impatiens* (Hd).
- T. nigropilosus** Uzel. Canastota, Aug, on castor-oil plant in greenhouse, *Faure* (Hd); Macedon, Ap, on leaves of mullein (Hd); Rochester, Mar, on lemon verbena in greenhouse (Hd); Berkshire, Je, on lettuce, *EasonNH* (Hd). Apparently introduced from Europe.
- T. physapus** L. Speculator, May, *Yg* (Hd); Sodus Pt., Aug (Hd); Rochester, May-Aug (Hd); Wallace, Ap (Hd); Ithaca, Je, Aug, Oct, *Faure* (Hd). A common dandelion-flower species.
- T. tabaci** Lindeman. THE ONION THRIPS. Newport, Jl (Felt); Canastota, Nov, on grass near onion fields, *Faure* (Hd); Marion, Je, on onion, *Faure* (Hd); Macedon, Oct, on onion (Hd); Genesco, Je (Felt); Ithaca, Oct, on daisy, *Faure* (Hd); **LI:** Je, infesting cauliflower seedbeds, *Huck* (Hd).
- T. monotropæ** Hd. Sodus Pt., Aug 10, in flowers of *Monotropa uniflora* (Hd).
- T. veratri** Herr. Ithaca, on *Veratrum viride* (*Herr*).
- T. flavus** Schrank. Ithaca, Jl, in flowers of *Angelica atropurpurea*, *JacksonLO* (Hd).
- T. fuscipennis** Hal. Ithaca, Jl, in flowers of *Angelica atropurpurea*, *JacksonLO* (Hd).
- T. calcaratus** Uzel. McLean, May 19, in grass, etc., *Leon&Hd* (Hd).

## BALIOTHRIPS Uzel

- B. dispar** (Hal.). Chester, Ap, on grass, *Faure* (Hd).

## FAMILY MEROTHRIPIDAE

## MEROTHRIPS Hood

- M. morgani** Hd. Macedon, Oct, under bark of fallen elm tree (Hd).

## SUBORDER TUBULIFERA

## Superfamily PHLAEOTHRIPOIDEA

## FAMILY PHLAEOTHRIPIDAE

## HAPLOTHRIPS Amyot and Serville

- H. graminis** Hd. Barneveld, on grasses, *WolcottGN* (Hd).
- H. faurei** Hd. Ithaca, Oct, on ivy foliage, *Faure* (Hd), and on *Chenopodium album*, *Chap* (Hd), May, on willow foliage (Hd); Florida, Aug, on willow foliage, *Faure* (Hd); W. Danby, May, on willow (Hd); Cinnamon L., May, on pine (Hd).

- H. leucanthemi** (Schrank) (*niger* Osb., *statices* auct. nec Hal.). Speculator, Je, in flowers of red clover, daisy, and yarrow, *Yg* (Hd-NYS); Northampton, Je, on yarrow, *Yg* (Hd-NYS); Wells, May, on buttercup and blackberry, *Yg* (Hd-NYS); Canastota, Jl-Aug, on daisy, *Faure* (Hd); Rochester, Je-Jl, on *Chrysanthemum leucanthemum*, *Melilotus officinalis*, and *Trifolium repens*, *MaynardEA* (Hd), on wild carrot (reared), and in flowers of *Achillea millefolium* (Hd); Macedon, Je, on *Chrysanthemum leucanthemum* and *Trifolium* spp. (Hd); Ithaca, Je, in flowers of daisy and rhubarb, *Faure* (Hd), Jl, on yarrow (*Herr*), Aug, on red clover, *Wehrle* (Herr); Taughannock, Jl, on ox-eye daisy (*Herr*); **LI**: Riverhead, Je, on daisy, *RussellHM* (Hd).
- H. verbasci** (Osb.). Speculator, Je, on mullein, *Yg* (Hd); Rochester, Nov, on mullein (Hd); Macedon, throughout the year, on mullein (Hd); Wallace, May, on mullein (Hd); Ithaca, May, on mullein (*Herr*), and in stomach of very young trout, *Pck* (Herr); McLean, May, on mullein, *Leon&Hd* (Hd); **LI**: Riverhead, Je-Jl, common on mullein, one specimen from black-eyed daisy, *RussellHM* (Hd).

## HINDSIANA Karny

- H. dodgei** Hd. Macedon, May 4, under rotting elder bark (Hd).  
**H. pullata** Hd. Macedon, Jan 23, under bark on apple tree (Hd).

## ZYGOTHRIPS Uzel

- Z. americanus** Hd. Macedon, Jan-Apr, Aug, under bark of maple, hickory, apple, and ash trees (Hd); Slaterville, May, under maple bark (Hd).

## LEPTOTHRIPS Hood

- L. mali** (Fitch) (*adironacks* Watson, in part). "NY" (Fitch); Cranberry L., Jl, on yellow birch, *Drk*, "type, male," of *L. adironacks* Watson (Hd); Macedon, Je, on leaves of grape and basswood (Hd); E. Bethany, May, on apple, *Herr* (Hd); Geneva, on grape clusters (Hd); Ithaca, Oct, on grape foliage, *Faure* (Hd); Suffern, May, on Azalea and dogwood, *KalmbachER* (Hd).

## LIOTHRIPS Uzel

- L. caryae** (Fitch). "NY", in galls of Phylloxera on hickory (Fitch).  
**L. citricornis** (Hd.) (*Leptothrips adironacks* Watson, in part). Cranberry L., Je, on *Viburnum alnifolium*, *Drk*, paratype of *L. adironacks* Watson (Hd); Macedon, Je, on grape (Hd); Suffern, May, on grape, *JacksonLO* (Hd).  
**L. vaneeckei** Pries. **LI**: Brooklyn, Oct, on bulbs of *Lilium canadense*, *Stout* (Hd).

## RHYNCHOTHRIPS Hood

- R. russelli** Hd. Keene Val., Je, on Virginia creeper, *Mrs. W. S. Stewart* (Hd).  
**R. pruni** Hd. Macedon, throughout the year (Hd); Ithaca, Mar (Hd); Slaterville, May (Hd); McLean, May, *Leon&Hd* (Hd). Common under bark of wild cherry.

## NEOTHRIPS Hood

- N. corticis** Hd. Macedon, Feb, Apr, Aug, under bark of hickory, maple, apple, and buckeye (Hd).

## HOPLOTHIRIPS Amyot and Serville

- H. beachi** (Hinds). Macedon, Aug, under bark of dead maple saplings (*Hd*); Rochester, Je, reared from pupae taken under dead willow bark, *TreherneRC* (*Hd*); Mumfords, Ap, under bark on dead willow branch (*Hd*); Ludlowville, May, under willow bark (*Hd*); Elmira, Oct, under bark of beech, *Chap* (*Hd*); Clarksburg, Sep, under bark of beech, *Chap* (*Hd*); Barcelona, Sep, under bark of beech, *Chap* (*Hd*).
- H. corticis** (DeG.). Cinnamon L., May, under bark of birch, *Brad&Hd* (*Hd*); LI: Bergen Beach, Jan, under bark of oak, *Dow* (*Hd*).
- H. karnyi karnyi** (*Hd*). Macedon, Ap, under bark (*Hd*); Slaterville, May, under bark of apple (*Hd*).
- H. karnyi major** *Hd*. (*Trichothrips drakei* Watson, at least in part). Macedon, throughout the year, under bark of various trees, usually associated with fungus (*Hd*); Lakeville, May, under willow bark, *MaynardEA* (*Hd*); Syracuse, Oct, under bark of black locust, *OsbornE*, paratype of *Trichothrips drakei* Watson (*Hd*); Ithaca, Mar, in shelf fungus (*Herr*), Nov, under bark of tree, *Babiy* (*Herr*), Feb-Je, on Polyporus (*Hd*), Je, in rotten stump, *Cy* (*Hd*); Taughannock, Aug, under bark of beech stick (*Herr*); McLean, May, under bark on fungus-covered stump, *Leon&Hd* (*Hd*); Cinnamon L., May, under bark of birch, *Brad&Hd* (*Hd*); LI: Sea Cliff, Sep, oak branches, *Chap* (*Hd*).

## TRICHOTHRIPS Uzel

- T. americanus** *Hd*. Ludlowville, May, under willow bark (*Hd*).
- T. angusticeps** *Hd*. Macedon, Ap, Aug, under bark of fungus-covered maple and hickory stumps (*Hd*); Rochester, Nov, on fungus under bark of beech stump (*Hd*).
- T. fumiceps** *Hd*. Potter, Ap, under rotting willow bark (*Hd*).
- T. flavicauda** Morgan. Macedon, Oct, under elm bark (*Hd*); W. Danby, Ap, under poplar bark (*Hd*).

## LISSOTHRIPS Hood

- L. muscorum** *Hd*. Ithaca, May, in moss, *BarnesTC* (*Hd*).

## BOLOTHRIPS Priessner

- B. bicolor** (Heeger). Canastota, Mar, on grass, *Faure* (*Hd*); Macedon, Mar, under fallen leaves (*Hd*); Ithaca, Mar-May, Jl, on grasses and in fallen leaves and other debris, *Babiy* (*Herr*), *BarnesTC* (*Hd*).

## CRYPTOTHRIPS Uzel

- C. rectangularis** *Hd*. (*Gastrothrips salicis* Watson). Cranberry L., Jl, on willow, *Drk*, holotype of *G. salicis* Watson (*Hd*); Macedon, May-Je, under willow bark (*Hd*); Kenwood, Jl, on peach bark, *Faure* (*Hd*); Ithaca, May, under willow bark (*Hd*).
- C. (?) breviventris** *Hd*. Macedon, Oct 26, in moss on fallen tree in lowland (muck) woods (*Hd*).

## PHLAEOTHIRIPS Haliday

- P. chapmani** *Hd*. Cinnamon L., Je, under bark of poplar, *Chap* (*Hd*); Elmira, Jl, on tobacco foliage, *Faure* (*Hd*).
- P. vittatus** *Hd*. Parkers, Lewis Co, Sep 2, *Chap* (*Hd*).



## HOPLANDROTHRIPS Hood

- H. xanthopus** Hd. Macedon, May, reared from nymph taken under maple bark (Hd).  
**H. proximus** Hd. Macedon, May 18-31, Ithaca, May 27, under dead bark of *Salix* (Hd).  
**H. gynandrus** Hd. Macedon, May 18 and 29, under dead bark of *Salix* sp. infested with *Cryptorhynchus lapathi* (Hd).

## PHLOEOBIOTHRIPS Hood

- P. tumiceps** Hd. Macedon, May, Oct Nov, under bark of fallen branches and saplings (Hd).

## ACANTHOTHRIPS Uzel

- A. nodicornis** (Reut.). Cranberry L., J1, in top of fallen maple tree, *Drk* (WatsonJR); Macedon, May, under willow bark (Hd).

## NEUROTHRIPS Hood

- N. magnafemoralis** (Hinds). Cranberry L., J1, in top of fallen maple tree, *Drk* (WatsonJR); Macedon, Feb-Apr, under bark of maple and hickory (Hd); Canastota, Mar, under bark, *Faure* (Hd); Chester, on onion, *Faure* (Hd); Slaterville, May, one dead female under sycamore bark (Hd).

## POECILOTHRIPS Uzel

- P. ornatus** (Hd.). Sodus Pt., Sep, one female taken in flight (Hd); Rochester, J1, one female taken in flight (Hd); Macedon, Ap, several nymphs under bark on hickory stump (Hd).

## GLYPOTHRIPS Hood

- G. flavescens** Hd. Chester, Ap, in grass, *Faure* (Hd).

## MEGALOTHRIPS Uzel

- M. spinosus** Hd. (*Idolothrips fuscus* Watson). Syracuse, Oct, in burrows of cerambycid-beetle larva in twig of basswood, *Drk*, "type" and paratype of *Idolothrips fuscus* Watson (Hd); Macedon, Mar-Je, under bark of maple, in burrows of *Cryptorhynchus lapathi* in willow, and in stem galls on goldenrod (Hd); Ithaca, Mar, in hole in dead twig, *FletcherPB* (Hd); Nyack, in nest of mining bee, *Zab* (Hd); Rock City, Sep, under maple bark, *Chap* (Hd); LI: Sea Cliff, Sep, on oak branches, *Chap* (Hd).

## ELAPHROTHRIPS Buffa

- E. tuberculatus** (Hd). LI: Long Pond, Sep 19, in dry oak leaves on broken limb, *Chap* (Hd); Wading River, Sep 19, *Chap&Boyce* (Hd).

ORDER ANOPLURA

Compiled by G. F. FERRIS

The published records of the occurrence of species of sucking lice in New York are apparently very few. However, the distribution of these insects is determined rather by the range of their hosts than by any other factor, and consequently we may be reasonably sure that those species whose normal hosts occur within the State will be found there also. The compiler has therefore included in this list the names of those species which may reasonably be expected to occur. Such species are indicated by brackets and are in italics.

The general classification of the Anoplura is in a rather unsatisfactory state and will probably require some modification. Two families are recognized for the New York species.

FAMILY PEDICULIDAE

PEDICULUS Linnaeus

**P. humanus** (L.). HEAD AND BODY LOUSE OF MAN. Generally distributed throughout the State. Usually two species are recognized, *capitis* and *corporis*, but it has been shown that at best these are nothing more than races which should probably not be recognized.

PHTHIRIUS Leach

**P. pubis** (L.). PUBIC LOUSE. Not common, but known from various places in the State where sanitary conditions are bad.

FAMILY HAEMATOPINIDAE

HAEMATOPINUS Leach

[*H. asini* (L.). HORSE LOUSE. Occurs on horses in the State, but definite locality records are not available.]

**H. eurysternus** (Nitz.). SHORT-NOSED OX LOUSE. Throughout the State, on domestic cattle. Watertown (Bishopp); Otto, Mar (Comst); Oswego (Comst); Ithaca.

**H. suis** (L.). HOG LOUSE. Throughout the State, on domestic pigs. Otto, Je (CU); Ithaca (Laura Florence).

LINOGNATHUS Enderlein

[*L. pedalis* (Osb.). Doubtless to be found in the State on domestic sheep.]

[*L. stenopsis* (Burm.). Doubtless to be found in the State on domestic goats and perhaps on sheep.]

**L. setosus** (von Olfers) (*piliferus* (Burm.)). DOG LOUSE. LI: Brooklyn, on unnamed host, doubtless dog, *GH Frank* (Bishopp).

**L. vituli** (L.). LONG-NOSED OX LOUSE. Common throughout the State, on domestic cattle. Herkimer; Watertown and Oriskany Falls (Bishopp).

## SOLENOPOTES Enderlein

**S. capillatus** End. On domestic cattle. Herkimer; Churchville; Ithaca (Bishopp).

## POLYPLAX Enderlein

[*P. auricularis* Kellogg & Ferris. In all probability to be found on the white-footed mice of the genus *Peromyscus*.]

**P. spinulosa** (Burm.). LI: Brooklyn, host not given, but doubtless domestic rat, *GHFrank* (Bishopp). To be expected on the meadow mice of the genus *Microtus*.

## HOPLOPLEURA Enderlein

**H. acanthopus** (Burm.). "NY", on *Pitymys pinetorum* (Ferris, from skins in U.S.). Certainly present also on meadow mice of the genus *Microtus*.

**H. erratica** (Osb.). Sing Sing, on *Tamias striatus* (Ferris, from skins in U. S.).

[*H. hesperomydis* (Osb.). Certainly to be found in the State on white-footed mice of the genus *Peromyscus*.]

[*H. sciuricola* Ferris. To be expected in the State on any of the tree squirrels.]

[*H. trispinosa* Kellogg & Ferris. To be expected in the State on flying squirrels.]

## NEOHAEMATOPINUS Mjöberg

[*N. sciurinus* Mjöberg. To be expected in the State on any of the tree squirrels.]

[*N. sciuropteri* (Osb.). To be expected in the State on flying squirrels.]

## ENDERLEINELLUS Fahrenholz

[*E. longiceps* Kellogg & Ferris. To be expected in the State on *Sciurus carolinensis*.]

[*E. marmotae* Ferris. To be expected in the State on woodchucks.]

[*E. nitzschi* (Burm.). To be expected in the State on *Sciurus hudsonicus*.]

[*E. tamiasis* Fahrenholz. To be expected in the State on *Tamias striatus*.]

## MICROPHTHIRUS Ferris

[*M. uncinatus* (Ferris). To be expected in the State on flying squirrels.]

## EUHAEMATOPINUS Osborn

**E. abnormis** Osb. Rochester, from mole (Ferris, from skins in U.S.), and from an unnamed host, certainly a mole, *GHFrank* (Bishopp).

## HAEMODIPSUS Enderlein

[*H. ventricosus* (Denny). Certainly present in the State on both domestic and wild rabbits.]

## ORDER HEMIPTERA

The list of Hemiptera has been prepared under the general editorship of H. G. Barber, of the New York Entomological Society, who has compiled the lists in all families not otherwise credited. J. R. de la Torre-Bueno, of the Brooklyn Entomological Society, has compiled the lists in

the families of aquatic and semi-aquatic Hemiptera. The lists of Miridae and Isometopidae are by Dr. H. H. Knight, and those of Piesmidæ and Tingitidae are by Dr. Carl J. Drake. Mr. Barber has determined much of the material in local public and private collections, except in the groups handled by Mr. Bueno, and has collected extensively on Long Island. Many records in all groups have been supplied by Dr. Knight, chiefly from Batavia, Ithaca, and Rock City; by Mr. Bueno from White Plains; and by William T. Davis, chiefly from Staten Island and Long Island but also from other parts of the State where he has collected. Ernest Shoe-maker and F. M. Schott have supplied many records, and others also have furnished many, as credited. The editors are indebted to E. P. Van Duzee for an enormous amount of work in the determination of much material from all parts of the State, and for placing at their disposal all of the records which he had available.

Hemiptera have been actively collected by some of the leading specialists for many years in many places in the State, and the list is undoubtedly fairly representative. There is need, however, as will be readily seen, of much more collecting in certain groups and in certain regions.

The sequence of families and genera in the present list follows as closely as possible that in Van Duzee's *Catalog of the Hemiptera*. This is practically the reverse of the order used in Comstock's *Introduction to Entomology*. The order of arrangement of species, in general, follows Van Duzee's catalog, and for convenience the catalog numbers are attached. The synonymy has been changed only where later studies have seemed to warrant doing so. Species not preceded by a number have been described since Van Duzee's catalog was published.

## FAMILY SCUTELLERIDAE

### SUBFAMILY TETRYINAE Stål

#### TETRYA Fabricius

- 3 *T. bipunctata* H-S. **LI:** Central Pk., *Woodr, Ds*; Huntington, *Schott*; Bellport, *Nic*; Huntington, *Schott*; Wading R., *Ols, Ds*; Bay Shore, *Ols*; Yaphank, *Bno, Eng*; Massapequa, *Ds*; Wyandanch, *Sf*; Pinelawn, *SWheat*; Montauk, *Ds*; Promised Land, *Eng, Ds*; (all Brb). Ap-Sep. Adults more common on pitch pine in spring and fall; nymphs in mid-summer, and often found on young pine cones (*Ds*).

#### ACANTHOLOMA Stål

- 8 *A. denticulata* Stål. West Pt., Ap-May, in lake drift, *Robn* (Bno, Brb).

#### STETHAULAX Bergroth

- 11 *S. marmoratus* Say. **LI:** Flushing, *Ols*; Kissena Pk.; Rockaway Beach, *Ds, Eng*; (all *Ols*). May-Oct. Usually beaten from cedar (Brb).

## HOMAEMUS Dallas

- 14 **H. aeneifrons** Say. Long L., *Ds*, *Bno* (Brb); L. Placid, *Ds*, *Eng* (EPV); Saranac L., *Ds* (Brb); Cranberry L. (*Drk*); Keene Val., *Not* (Brb); Cascade L., Indian L. (*Brb*); Ramapo Mts. (Brb-AM).

## SUBFAMILY ODONTOTARSINAE Stål

## EURYGASTER Laporte

- 19 **E. alternatus** Say. Found all over the State (Brb). Cranberry L. (*Drk*); L. Placid, *Eng*; Keene Val., Moss Pond, *Not* (Brb); Indian L., Cascade L. (*Brb*); Niagara Falls, Buffalo (EPV); Ithaca, *Ds* (*Kngt*); Mud Cr., Tompkins Co (EPV-CU); L. George (Brb-AM); E. Jewett, DeBruce, *Ds* (Brb-AM); W. Hebron, *Lg* (Brb); Phoenicia (EPV); West Pt., *Robn* (Brb); White Plains (*Bno*); **SI** (*Ds*); **LI**: Bellport, *Nic* (Sf-BM); Amagansett, *Sf* (Brb).

## FAMILY CYDNIDAE

## SUBFAMILY THYREOCORINAE VanDuzee

## GALGUPHA Amyot and Serville

## (Thyreocoris Schrank)

- 27 **G. unicolor** Pal. de Beauv. (*atra* Amyot & Serv.). Occurs all over the State (Brb). Potsdam, *Jl*, *Houghton* (EPV); Cranberry L., *Jl* (*Drk*); Newport, May, *Yg* (EPV); Buffalo, Sep (EPV); Boston, Aug, Hamburg, May, E. Aurora, Sep, Colden, Aug, Chautauqua, May, Gowanda, Aug (EPV); Cattaraugus Co, *Jl*, *Ds* (Brb); Nassau, *Jl*, *Yg* (EPV); DeBruce, *Dow* (Bno); W. Hebron, Aug, *Lg* (EPV); Pine L., May-Je (Brb, Ols); White Plains, Armonk, May-Sep (Bno); Scarsdale, May-Aug (Bno); Bronxville, Je, *Woodr* (Brb); Van Cort. Pk., Je, *Woodr* (Brb); **SI**, Je-Sep, *Ds*, *Bno* (Brb); **LI**: Rockaway Beach, May, *Ds* (Ols); Long Beach, Je, *Eng* (Sf); Wading R., May, Maspeth, Je-Aug, Yaphank, May (Ols); Pinelawn, Sep, Montauk, Sep, *Ds* (Brb); Flatbush, May-Sep, Moshulu, Sep (Brb-AM). Probably some of these records should refer to the next species (Brb).
- **G. aterrima** Mall. Buffalo, Hamburg, *Jl* (EPV).
- 28 **G. nitiduloides** Wolff. Keene Val., Aug, *Not*, Mt. Whiteface, *Jl*, *Ds* (Brb); Buffalo, Colden, Aug (EPV); **SI**, Je-Sep (Ds); **LI**: Rockaway Beach, May, *div.* (Ols); Long Beach, May (Ds).
- 31 **G. nigra** Dall. **LI**: Cold Sp. Harb., May, Aug, Yaphank, Sep (Brb).

## CORIMELAENA White

## (Thyreocoris Schrank)

- 34 **C. lateralis** Fab. Axton, Je (M&H); Niagara Falls, Je (EPV); DeBruce, *Dow* (Bno); **LI**: Long Beach, May, *Eng* (Sf-BM).
- **C. marginella** Dall. (*nanella* McAtee, vide McAtee). Grandview, near Nyack, Je (Brb).
- 37 **C. pulicaria** Germ. Generally distributed throughout the State (Brb). Cascade L., Indian L., Aug (Brb); Mt. Whiteface, *Lg* (Brb); Cranberry L., *Jl* (*Drk*); Potsdam, *Jl*, *Houghton* (EPV); Rochester, *Wendt*



(Ols); Buffalo, Aug (EPV, Brb); Boston, Aug (EPV); Aurora, JI (Brb-AM); Karner, JI (EPV); Pine I., Je (Brb); White Plains, May-Dec 23, hibernating on latter date (Bno); W Nyack, May (Ols); **SI**, JI-Aug (Ds); **LI**: Brooklyn, Wyandanch (Ds); Maspeth, sifting (Ols); Yaphank (Ds, Ols); Kissena Pk. (Ols); Rockaway Beach, *div.* (Bno); Bay Shore (Ols); Flatbush (Brb-AM); Long Beach, Promised Land, *Eng* (Bno); Cold Sp. Harb., *EPButler* (Huss); Fire I. (Ds); Feb-Sep.

## SUBFAMILY CYDNINAE Dallas

## CYRTOMENUS Perty

- 44 **C. mirabilis** Perty. **SI**, Aug, *Ds* (Ashm).

## AETHUS Dallas

(*Cydms*)

- 53 **A. obliquus** Uhl. **LI**: Aqueduct, Sep, *Ds* (EPV).

## PANGAEUS Stål

- 58 **P. bilineatus** Say. Oliverea, JI, *Shoe* (Ols); West Pt., Je (Sf-BM); Yonkers, Je (Brb); NYC, May, Van Cort. Pk., Je (Brb); Bronxville, Oct, *Woodr* (Brb); Inwood, May (Schott); **SI**, Sep, *Ds* (Brb); **LI**: Brooklyn, *Eng* (BM); Flatbush, *Zab* (Ols, Brb-AM); Kissena Pk. (Ols); North Beach, *Schott* (Ols); Ap-Oct.

## GEOTOMUS Mulsant and Rey

- 62 **G. pennsylvanicus** Signoret. Mosholu, May (Brb).

## AMNESTUS Dallas

- 67 **A. spinifrons** Say. Occurs all over the State (Brb). Indian L., Aug (Brb); Hamburg, Je, Aug (EPV); White Plains, May (Bno); Bronxville, JI-Aug, *Woodr* (Brb); **SI**, May-Je, *Ds* (EPV); **LI**: Yaphank, Aqueduct (Brb); Calvary Cemetery, *ENielson* (Ols); Flushing, *Ols* (Brb); Rockaway Beach (Ds); Huntington, Hempstead Plains (Schott); Yaphank, Long Beach, *Eng* (Bno); Far Rockaway, *Woodr* (Brb); May-Oct.
- 68 **A. pusillus** Uhl. Keene Val., May, *Not* (Brb); Indian L. Aug (Brb); Rochester, *Wendt* (Ols); Buffalo, Ap-May, Hamburg, Je (EPV); Batavia, May, *Kngt* (Bno); Gowanda, May (EPV); Ithaca, May (EPV-CU); Albany, May (EPV-NYS); W. Hebron, *Lg* (Brb); Yonkers, Ap, *Ang* (Ols); Scarsdale, May, *Eng* (Bno); **LI**: Rockaway Beach, *Ols* (Brb); Far Rockaway, *Woodr* (Brb); Maspeth (Ols); Long Beach, *Eng* (Bno); May.
- 69 **A. pallidus** Zimm. Mosholu, May (Brb); Pine I., Je (Brb).

## SEHIRUS Amyot and Serville

- 71 **S. cinctus** Pal. de Beauv. Occurs all over the State (Brb). Long L., *Ds*, Cascade L., Aug (Brb); Wilmington, JI (Ds); N. Elba, JI (Brb-AM);

Saranac L., Sep, *Lg* (Ds); Cranberry L., Je-Sep, *H* (Huss, Drk); L. Placid, Aug-Sep (EPV); Chazy L., Je (NYS); Buffalo, Hamburg, Jl, and Ithaca, Jl (EPV); L. George, Jl (Brb-AM); Oliverea, Je (Ds); Orange Co, Ap, *JCFaure* (Kngt); Tarrytown, Jl (Bno); **SI**, Aug (Ds); **LI**: Wading R. (Brb, Ds); Montauk, *Schott* (Ols); Je-Aug.

### FAMILY PENTATOMIDAE

#### SUBFAMILY GRAPHOSOMATINAE Jakowleff

##### PODOPS Palisot de Beauvois

- 74 **P. (Amaurochrous) cinctipes** Say. Buffalo, May-Sep (EPV-NYS, CU); Ithaca, Jl (EPV-CU); White Plains, Ap-Sep (Bno); **SI**, Feb-Oct (Brb, Ds); **LI**: Rockaway Beach, *Eng*, *Ds* (Ols, Brb-AM); Far Rockaway, *Woodr* (Brb); Canarsie (Ols); Long Beach, Jamaica, Flatbush, *Eng* (BM); Bellport, *Nic* (BM); New Lots, *Martin* (BM); E. New York (Ds); Ap-Oct. Common on cattails (Ds), in salt meadows, and on *Juncus gerardi* and doubtless other rushes (Parsh).
- 75 **P. (Amaurochrous) parvulus** VanD. White Plains (Bno); "NY" (EPV).

#### SUBFAMILY PENTATOMINAE Stål

##### SCIOCORIS Fallén

- 79 **S. microphthalmus** Flor. Indian L., Aug (Brb); Cranberry L., Jl-Aug (Drk). Sifted from moss.

##### BROCHYMENA Amyot and Serville

- 81 **B. arborea** Say. Lansing, Je-Sep (EPV-NYS); Honeoye Falls, Je (Ds); Buffalo, Ap-Sep (EPV); Hamburg, Je-Sep (EPV-NYS); Gowanda, Aug (EPV); Ithaca, May-Aug (Vdyk-CU); Nassau, Je-Sep (EPV-NYS); White Plains, Aug (Bno); Ramapo, Oct (Ds); Pine I., Sep (Brb); West Pt., Jl, Sep (Brb, Robn); **SI**, Aug-Nov (Ds); **LI**: everywhere (Brb); Huntington, Wyandanch, *Schott* (Ols); Queens, *Ols* (Brb); Yaphank, *Eng* (Ds-BM); Long Beach, Calverton, *Eng* (BM); Amagansett, *Sf*, Bellport, *Nic* (BM); Baldwin, nymphs (Ds); Rockaway Beach, Southold, Massapequa, Wading R., Farmingdale (Ds); Ap-Oct.
- 85 **B. quadripustulata** Fab. Mt. Whiteface, Je (Ds); Essex Fells, Aug, *Nic* (BM); Elma, Sep (EPV); Hamburg, Sep (EPV); Spring Br., Je, *MCV* (EPV); Batavia, May-Sep, Geneva, Aug (Kngt); Ithaca, Feb-Nov (EPV, Kngt-CU); Clinton Hgts., Ap (EPV); W. Hebron, Je (Lg); Pittstown, Aug (EPV-NYS); Nyack, Sep (Brb-AM); Pine I., Je, *Sf* (BM); Cruger, Jl (Brb-AM); White Plains, Mar-Sep (Bno); West Pt., Je (Ds); Ft. Montgomery, May (Brb); NYC (Brb); **SI**, Feb, Mar, Jl-Sep (Ds); **LI**: Queens Village, Aug, *Ols* (Brb); Rockaway Beach (Ds); Port Washington, Sep (Ols); Kings Pk., Je, *EBell* (Ols); Coney I., *Zab* (Ols); Massapequa, Central Pk., Montauk (Ds); Parkerville, *Bt* (Ols).
- 89 **B. carolinensis** Westw. (*annulatus* Fab.). Albany Ap, *Yg* (EPV); Clinton Hgts., Ap (EPV); southern NY (EPV).

## PERIBALUS Mulsant and Rey

- 94 **P. limbolarius** Stål. Cranberry L., J1 (Drk); Onondaga Co, May, *H* (Huss); Buffalo, May-Sep (EPV); Hamburg, Aug-Sep (EPV); Batavia, May-Sep (Kngt); Ithaca, Ap-Aug (EPV-CU); Norton's Landing, May, *SmHH* (EPV); L. George, Aug (Brb-AM); Albany, Oct (EPV-NYS); Kingston, Aug (EPV); Mosholu, Aug (Bno); White Plains, J1-Sep (Bno, Ols); Ramapo, May, Aug (Ds); **SI**, May-Je, Oct (Ds); **LI**: generally distributed on Solidago and shepherd's-purse (Ols); Yaphank, Sep (Bno); Cold Sp. Harb., *EPButler* (Brb, Huss); Aqueduct (Ds, Brb); Kings Bridge (Brb); Rockaway Beach, *Shoe* (Ols, Ds); Queens Village, *Schott*, Hempstead, Canarsie (Ols); Pinelawn, Massapequa, Half Way Hollow Hills, Orient (Ds); May-Oct.

## TRICHOPEPLA Stål

- 98 **T. semivittata** Say. Essex Fells, J1, *Nic* (BM); Buffalo, Je-Nov (EPV); Hamburg, J1, Colden, Aug (EPV); Salamanca, J1 (EPV); Ithaca, J1-Aug, Sep (EPV-CU); Binghamton, J1 (Brb-AM); Saugerties, J1 (Brb); Pine I., Je (Brb); Ramapo Mts. (Brb-AM); White Plains, Valhalla, May, Rye Beach, Aug (Bno); Yonkers (Brb-AM); Mosholu, J1-Oct, *Bno* (EPV); W. Nyack, Sep (Ols); Ft. Montgomery, J1, *Bno* (EPV); Bronxville, May-Sep, *Woodr* (Brb); Van Cort. Pk., Je-Sep (Brb); **SI**, Je-Sep, *Bno* (Ds, EPV); **LI**: Yaphank, *Bno*, *Eng*, *Ds* (Bno); Cold Sp. Harb., J1-Aug, *EPButler* (Huss, Brb); Maspeth (Ols); Wading R. (Brb, Ols); Bay Shore, Hempstead (Ols); Huntington, *Schott* (Ols); Flatbush, *Zab* (Brb); Pinelawn, *Schott* (Ols); Half Way Hollow Hills (Ds); Amagansett, *Sf* (BM); Jamaica, Flushing, Long Beach, *Eng* (Brb); May-Sep. Throughout LI on *Daucus Carota* (Ols).

## RHYTIDOLOMIA Stål

- 101 **R. saucia** Say. Rye Beach, J1 (Bno); **SI**: salt meadow, May, Sep-Nov (Brb, Ds); **LI**: Rockaway Beach, *div.* (Ols, Brb-BM); Springs (Ds); Aqueduct (Ds, Brb, Ols); Bellport, *Nic* (BM); Coney I., *Schott* (Ols); Flatbush, Amagansett, *Eng* (BM); Bergen I., Cypress Hills (Brb-AM); Long Beach, Montauk, *Schott* (Ds); Sea Cliff, *Bks*; Orient Pt. (EPV-NYS); May-Nov. Confined mostly to salt marshes; often taken on *Spartina patens* on LI (Parsh).
- 102 **R. senilis** Say. Rye Beach, Aug (Bno); NYC, Oct (Brb); **SI**, Jan, Ap-May, Sep, Dec (Brb, Ds); **LI**: Sands Pt., *Bs* (Ds); Rockaway Beach (Ds, Brb, Ols); Orient, *Lath* (Ds); Aqueduct, *Ds* (Ols); Central Pk., *Sf*, *Eng* (Ols-BM); Flatbush, *Eng*, Promised Land, *Eng* (BM); Coney I., *Zab*, Cypress Hills (Brb-AM); Hempstead (Ols); Brooklyn, *Schott* (Ols); Melville, *Schott*; Pinelawn, *Eng* (Ols); Amityville, Ols (Brb); Yaphank, near beach in rushes and grasses (Bno); Ap-Jan.

## CHLOROCHROA Stål

- 106 **C. persimilis** Horv. (*uhleri* Stål, vide VanD.). Keene Val., Sep, *Not* (Brb); Cranberry L., Aug (Drk); Lewiston, J1, *Wat* (Brb); New Russia, Je, *EABlunt* (Felt); Rochester, Aug, *Wendt*, *HESummers* (Ols, EPV); Niagara Falls, Je, Lockport, Aug, Elma, Aug, Hamburg, May (EPV); Pike, Ap (EPV-NYS); Batavia, Je-Sep (Kngt);

Buffalo, May-Oct (EPV); Brockport (Lint); Otto, Sep, Gowanda, Ithaca, May-Sep (EPV-CU); N. Chatham, May (Felt); Saratoga (Horr-NYS); Callicoon, JI (Ds); W. Hebron, Aug, *Lg* (Ds); Helderbergs, JI, *Wat* (Brb); Ramapo Mts. (Sf-BM); Pine I., Je (Brb); **LI**: Bayville, *Bks* (Ols); Amagansett, *Eng* (Ols-BM); Promised Land, *Ds* (Ols); Wading R. (Ols); Central Pk. (Ds); Calverton, *Eng* (Sf-BM); May-Sep.

#### MORMIDEA Amyot and Serville

- 111 **M. lugens** Fab. Keene Val., Aug, *Not* (Brb); Cranberry L., Je-Sep, *H* (Drk, Huss); Mt. Whiteface, Je (Ds); Hastings, JI (Ds); Buffalo, Hamburg, Je (EPV); Lancaster (EPV); Batavia, Je-Aug (Kngt); Ithaca, JI-Aug, *Comst*, *Atkinson* (EPV-CU); Motts Corners, Aug, *Comst* (EPV-CU); L. George, Aug, *Zab* (Brb-AM); Poughkeepsie, Je (EPV-NYS); Debruce, Sep (Ds); Ulster Co, Sep; Kingston, Aug (EPV); Ramapo, May, *Bno* (EPV); Scarsdale, Aug (Bno); Pine I., Je (Brb); White Plains, Mar-Aug, Dec, under stones, Carmel, Aug 1 (Bno); Larchmont, Aug (Brb); Crugers, JI, Nyack, Aug (Brb-AM); Mt. Vernon, Je (Woodr); Bronxville, JI (Woodr); **SI**, Je-Aug (Ds, Ols); **LI**: (Ols); Forest Pk., *Bno* (EPV); Cold Sp. Harb., *EPButler* (Huss, Brb); Flushing (Ols); Yaphank (Ols, Ds); Hempstead (Ols); North Beach (Ols); Flatbush, *Zab* (Brb-AM); Southport, Wading R., Montauk (Ds); S. Huntington, Aug (Bno); Ap-Nov.

#### SOLUBEA Bergroth

- 117 **S. pugnax** Fab. Rye Beach, Aug (Bno); **LI**: Long Beach, *Eng* (BM); Rockaway Beach; Cold Sp. Harb. (Brb); Rockaway Pk. (Ols); May-Oct.

#### EUSCHISTUS Dallas

- 121 **E. euschistoides** Voll. Generally distributed throughout the State. Wilmington, Saranac L., JI (Ds); Keene Val. (Not); Cranberry L. (Drk); Axton, Je (M&H); Indian L., Cascade L., Aug (Brb); Buffalo, Hamburg, Gowanda (EPV); Batavia, JI-Sep (Kngt); Lewiston, *Wat* (Brb); Portageville, Aug (Kngt); Ithaca; Oliverea, Nov (Ds); Debruce, *Dow* (Bno); L. George, W. Hebron, Sep (Lg); Karner (NYS); Albany, May (EPV); Rye, Sep (Ds); White Plains, Carmel, Armonk (Bno); Scarsdale (Bno); Pine I., Sep (Brb); Ramapo, Suffern, Sep (Brb); Grand View, Nyack, Je (Brb); Bronxville, Je-Sep (Woodr); Mosholu, May-Aug (Bno); Bronx Pk., May (Brb); **LI**: Cold Sp. Harb.; Wading R.; Wyandanch; Montauk; Long Beach; Rockaway; Yaphank; Amagansett; Half Way Hollow Hills; May-Sep.
- 124 **E. politus** Uhl. Karner, Sep (NYS); West Pt., May-Je; **SI**, Je (Ds); **LI**: Flatbush (Ols); Rockaway Beach, May (Ds); Pinelawn, Je (Ds); Smithtown, Je (Ds); Yaphank (*div.*); Amagansett, Sep (Ds); Wading R. (*div.*); Half Way Hollow Hills (Ds); Wyandanch, *Schott* (Ols).
- 125 **E. tristigmus** Say. Generally distributed throughout the State. Thousand Isls. (Ds); Keene Val., Je (Not, Eng); Axton, Je (M&H); Manlius, *SmHH* (EPV); Cascade L., Indian L., JI-Aug (Brb); L. Placid, Aug (EPV); Mt. Whiteface, JI (Ds); Cranberry L. (Drk, etc.); Saranac L., Sep (Ds); Rochester, *Wendt* (Ols); Albion, Aug (NYS); Batavia, May-Sep (Kngt); Buffalo, Lancaster, Hamburg, Gowanda,

- Jl-Aug (NYS); Rock City, Je (Kngt, Ds); Portageville, May (Kngt); Geneva, Aug (Huss); Ithaca, May-Sep (CU); McLean, Jl, Mud Cr., Je, Ellis to Slaterville, Slaterville to Caroline, Je (EPV-CU); Callicoon, Debruce, E. Jewett, Olivera, Je-Sep (Ds); L. George, Jl (AM); W. Hebron, Aug-Sep (Lg); Albany (NYS); Poughkeepsie (NYS); West Pt., Ft. Montgomery, May-Jl (Ds); White Plains, Sep (Huss); Armonk, Je, Scarsdale, Aug (Bno); Grand View, Nyack, Je (Brb); Pine I., Je (Ds); Mosholu, Jl, *Bno* (EPV); Van Cort. Pk., Sep (Ols); **SI**, May-Oct (Ds); **LI**: Cold Sp. Harb. (Brb, Huss); Flushing, Bay Shore, Rockaway Beach, Hempstead (Ols); Queens, *Schott* (Ols); Flatbush (AM); Yaphank, *Eng* (BM); May-Sep.
- 126 **E. variolarius** Pal. de Beauv. Common throughout the State, feeding on numerous kinds of plants (Brb); Cascade L., Aug (Brb); Pike (NYS); Fulton, Je (CU); Cranberry L., Jl-Aug (Drk); Rochester, *Wendt* (Ols); Batavia, Je-Sep (Kngt); Portageville, Aug (Kngt); Buffalo, Otto, Hamburg, Colden, Gowanda (EPV-CU); E. Aurora, Jl (Brb-AM); Rock City, Je (Ds); Ithaca, Caroline to Harford (CU); L. George, Aug (Brb-AM); W. Hebron, Aug-Sep, *Lg* (EPV); Karner, Round L. (NYS); Albany, Coeymans (NYS); Debruce, *Dow* (Bno); Olivera, Callicoon, Jl, Sep (Ds); West Pt., May-Oct (Ds); Hastings, Jl, *Joutel* (Ds); Scarsdale, White Plains, Aug (Bno, Huss); Ramapo, Jl (Ds); Van Cort. Pk., Mosholu, Je-Sep, *Bno* (EPV); Kings Bridge, Sep (Brb); **SI**, Mar-Oct, also found hibernating in old nest of red-eyed vireo, Feb 24 (Ds); **LI**: Brooklyn (Ds, Ols); Aqueduct, Oct (Brb); Cold Sp. Harb. (Huss, Brb); Forest Pk. (Bno, EPV); Rockaway Beach (Ds, Ols); Wading R. (Ds, Ols); Yaphank (Ds); Wyandanch (Ols); Orient (AM); May-Sep.
- 127 **E. ictericus** L. Batavia, Je-Aug (Kngt); Buffalo, Cheektowaga, Je-Sep (EPV); White Plains, Aug (Bno); Pine I., Sep (Brb); Inwood, Oct (Ds); Bronx Pk. (Brb-AM); **SI**, Je-Sep (Ds); **LI**: Aqueduct, Flushing R., Promised Land, Wading R. (Ds); Maspeth, Rockaway Beach (Ols); Je-Oct.

## COENUS Dallas

- 139 **C. delius** Say. Generally distributed throughout the State, collected on mullein (Brb); Mt. Whiteface, Wilmington, Jl (Ds); Cascade L., Indian L., Aug (Brb); Cranberry L., Jl (Drk); Onondaga Co, May, *H* (Huss); Rochester, *Wendt* (Ols); Batavia, Je, Sep (Kngt); Oakfield, Je (Not); Buffalo, Hamburg, Ap-Sep (EPV); Portageville, Je (Ds); Ithaca, Mar-Jl; Karner, Sep (NYS); W. Hebron, Sep, *Lg* (Ds); E. Jewett, Aug (Ds); Ft. Montgomery, Jl (Brb); Saugerties, Aug (Brb); White Plains, Ap, Sep (Ols, Huss); W. Nyack, Sep (Ols); Pine I., Je (Ds); Bronxville, Je (Woodr); Mosholu, Sep, *Ds*, *Eng* (Ols); **SI**, May-Sep (Ds); **LI**: Montauk, Deep Pond at Wading R., Half Way Hollow Hills (Ds); Flatbush, Rockaway Beach (AM); Amagansett, Greenport, Central Pk. (BM); S. Huntington, Aug (Bno).

## HYMENARCYS Amyot and Serville

- 140 **H. aequalis** Say. NYC (EPV); **LI**: Long Beach, May, *Eng* (BM).
- 143 **H. nervosa** Say. Albany, May (EPV-NYS); **SI**, Je, Aug, *Bno* (EPV); **LI**: Yaphank, *Ds* (Ols, Brb-AM), Flatbush, Rockaway Beach, *Schott* (Brb, Ols-AM); Wading R. (Ols); Cold Sp. Harb. (Brb); May-Oct.



## NEOTTIGLOSSA Kirby

- 145 **N. undata** Say. Throughout the State (Brb). Cascade L., Indian L., Aug (Brb); Axton, Je (M&H); Cranberry L., Je-Aug (Drk, Huss); L. Placid, Phoenicia, Aug (EPV); Essex, Je (NYS); Rochester, Jl, *Wendt* (Ols); Batavia, Je-Sep (Kngt); Oakfield, Je, *Not* (Brb); Portageville, May (Kngt); Buffalo, Gowanda, Hamburg, Lancaster, Colden, Je-Sep (EPV); Ithaca, Je-Jl (CU); **LI**: Yaphank, Oct (Ds).

## COSMOPEPLA Stål

- 149 **C. bimaculata** Thom. Throughout the State, common on mints and other plants (Brb). Potsdam (EPV); Keene Val., Je, *Not* (Brb); Cranberry L., *H* (Huss); Cascade L., Aug (Brb); Wilmington, Jl (Ds); Axton, Je (M&H); Rochester, *Wendt* (Ols); Batavia, Portageville, May-Sep (Kngt); Buffalo (EPV); Sonyea, Jl, *Lint* (NYS); Rock City, Je (Ds); Ithaca, May-Aug (CU); Binghamton, Jl (Brb); Olivera, Je-Sep (Ols, Ds); Pine Hill (AM); Callicoon, E. Jewett, Jl-Aug (Ds); L. George, Jl (AM); W. Hebron, Je-Sep, *Lg* (CU); Albany, Je, Nassau, Aug (NYS); Hudson, Je, *Eng* (BM); Loomis (Huss); White Plains, May-Sep (Bno); Armonk, Je (Bno), as *linteriana* Kirk.; Suffern, Aug, *Sf* (BM); Mosholu, Aug, *Bno* (EPV); **LI**: Flatbush, Huntington (Ols); Forest Pk., Je (EPV, Ols); Cold Sp. Harb., Jl (Huss, Brb); Winfield, Maspeth (Ols); Wading R., Je *Schott* (Ols); Je-Sep.

## MENECLIS Stål

- 155 **M. insertus** Say. Lewiston, May (EPV); Ithaca, Mar, Dec (Kngt); West Pt., Je, *Sf* (BM); White Plains, Mar, Feb 22, hibernating, *Farley* (Bno); **SI**: Richmond, Nov, St. George, Aug (Ds); **LI**: Rockaway Beach, May, Oct, *Schott*, *Ds* (Ols); Wading R., Je, *Schott* (Ols); Flatbush, May, *Zab* (Brb); Long Beach, Ap-Je, L. Ronkonkoma, May, *Schott* (Ols); Ap-Je.

## THYANTA Stål

- 158 **T. custator** Fab. Spread throughout the State (Brb). Cranberry L. (Drk); Buffalo, Ap (EPV); Mosholu, Je-Sep, *Bno* (EPV); **SI**, Jl (Ds); **LI**: Huntington, May, *Schott*, Yaphank (Ols); Rockaway Beach (Ols); Calverton, *Eng* (BM); Amagansett, *Sf* (BM); Montauk, Riverhead, Wading R. (Ds); Flatbush, *Eng* (Ols); May-Sep.
- 160 **T. calceata** Say. Ft. Montgomery, Jl, *Ds* (Brb); **LI**: Flatbush, Nov, *Schott* (Bno); Cold Sp. Harb., Aug (Brb).

## MURGANTIA Stål

- 172 **M. histrionica** Hahn. HARLEQUIN CABBAGE BUG. Oswego (How); Elmira, *Beckwith* (Felt); **LI**: Jamaica (How); Orient Pt., *Lath* (Felt). Occasional (Brb). Sometimes injurious to cabbage on **LI**.

## ACROSTERNUM Fieber

(Nezara Amyot and Serville, in part)

- 179 **A. pennsylvanicum** DeG. **SI**: Feb, Watchogue, Sep (Ds); **LI**: Huntington, *Schott, Eng* (Ols); Yaphank (Ols, Brb); Rockaway Beach, Wading R. (Brb); Calverton (Ds); Baldwin, *Hein* (Ols); May-Sep. Swept from young oaks, not common (Brb).
- 181 **A. hilare** Say. A common species in the southern part of the State, throughout LI and SI (Brb). Buffalo, Jl-Aug, Oct (EPV); Batavia, Jl-Sep (Kngt); Albany, Sep (EPV-NYS); L. George, Sep, *Zab* (Brb-AM); West Pt., Je (Brb); Ft. Montgomery, Jl, *Ds* (EPV); White Plains, Ap-Sep (Bno); Scarsdale, Sep (Bno); W. Nyack, Sep (Ols); Grand View, Je (Brb); Rye, Oct (Ds); Katonah, Jl, *Zab* (Brb-AM); **SI**, Ap-Oct (Ds); **LI**: Rockaway, Oct, *Schott* (Bno); Cold Sp. Harb., Jl (Brb); Oyster Bay (Bno); Cypress Hills, Flatbush, *Zab* (Brb-AM); Little Neck, *Schott* (Ols); Wading R., *Schott* (Ols); Calverton, *Eng* (BM); Yaphank, *Eng* (Ols); Wyandanch, *Schott* (Ols); Hempstead (Ols); Promised Land, Amagansett (Ds); Orient, *Lath* (Ds); May-Oct.

## BANASA Stål

- 182 **B. dimidiata** Say. Throughout the State (Brb). Essex Fells, Aug, *Nic* (Sf-BM); Mt. Whiteface, Jl (Ds); Old Forge, Je (EPV-NYS); Newstead, Je (EPV); Cranberry L. (Drk); Axton, Je (M&H); Rochester, Je, *Wendt* (Ols); Albion, Aug, Niagara Falls, Je (EPV); Buffalo, Aug-Sep (EPV); Batavia, Je-Jl (Kngt); Portageville, Je (Kngt); Portage, Je (Ds); Gowanda (EPV); Cattaraugus, Je (Kngt); Rock City, Je (Ds); Oliverea, Je, Aug-Sep, *Shoe* (Ds); L. George, Aug-Sep, *Zab* (Brb-AM); Sullivan Co, *Lg* (Brb); West Pt., Je, on shadbush (Ds); White Plains, Sep (Brb); Marlborough, Jl (Sf-BM); **SI**, Je-Aug (Ds); **LI**: Brooklyn, *Dow*, Wyandanch (Ols); Quogue, *Zab*, North Beach, *Palmer* (Brb); Rosedale, Gardiners I. (*Schott*); Rockaway Beach (Ols, Ds); Calverton (Ds); Orient, *Lath* (Ds); Coram (Ds); Amagansett, *Eng* (BM); May-Sep.
- 184 **B. calva** Say. Buffalo, Aug-Oct (EPV); Hamburg, Aug-Oct, Gowanda, Aug (EPV); Wyoming Co, Je (Kngt); Ithaca, Je-Jl (EPV-CU); Orange Co, Jl (Brb); Scarsdale (Bno); Ft. Montgomery, May (Brb); W. Nyack, Aug (Bno); **SI**, Oct (Ds); **LI**: Harbor Hill, Sea Cliff, *Bks* (Ols); North Beach, *Plm* (Brb); Amagansett, *Eng* (Ols); Mar-Sep.
- 186 **B. sordida** Uhl. **LI**: Huntington, Feb, *Schott* (Ols). An unusual record (Brb).
- 188 **B. euchlora** Stål. **LI**: Long Beach, Mar, *Schott* (Ols). Occurs on cedar in the South; an unusual record (Brb).

## DENDROCORIS Bergroth

- 194 **D. humeralis** Uhl. Karner, May (EPV-NYS); Ulster Co, Sep, *Nic* (Ds), found on oaks; West Pt., Je (Ds); Ft. Montgomery, May-Jl, *Ds* (Brb, EPV); **LI**: Yaphank; Huntington, Wyandanch, *Schott* (Ols); Wading R., *Ds, Ols* (Brb); Kings Pk., Shelter I. (Brb); Amagansett, *Eng* (Ds, Sf-BM); Pinelawn, *Eng* (Ds, Sf-BM); Bay Shore (Ols); Southold, Rockaway Beach, Central Pk., Riverhead, Massapequa (Ds); Bayville Beach (Bks); Deer Pk., Aug (Bno); May-Sep.

## SUBFAMILY ACANTHOSOMATINAE

## MEADORUS Mulsant and Rey

- 203 **M. lateralis** Say. Cascade L., Indian L., Aug (Brb); L. Tear, Jl, Keene Val., Aug, *Not* (Brb); Mt. Whiteface, Jl (Ds); Cranberry L., Je-Aug, *H* (Huss, Drk); L. Placid, Aug (EPV); Axton, Je (M&H); Hamburg, Boston, Aug (EPV); Ithaca, Jl (Kngt); Oliverea, Je (Ds); White Plains, Oct, sifting (Huss); Ft. Montgomery, May (Brb); **SI**, Sep (Ds); **LI**: Rosedale and Fire L. Beach (*Schott*); Rockaway Beach (Ds, Ols); Yaphank (Ds); Wyandanch, Nov, *Schott* (Bno); May-Aug. Occurs particularly on yellow birch and beech (Brb).

## ELASMOSTETHUS Fieber

- 204 **E. cruciatus** Say. Axton, Je (M&H); Plattsburg, Wilmington, Mt. Whiteface, Jl (Ds); Keene Val., Je, *Not* (Brb); Cascade L., Aug (Brb); Cranberry L., Aug (Drk); Brant L., Aug, *Doll* (Sf-BM); Ithaca, Je-Jl, Oct, *div.* (EPV-CU); McLean, Je-Jl (Kngt); L. George, Aug, *Zab* (Brb); **LI**: Yaphank (Brb); Rockaway Beach, *Bno* (Ols); Je-Sep. Occurs commonly on alder (Brb).
- 206 **E. atricornis** VanD. Cranberry L., Aug (Drk); Boston, Aug (EPV); Ithaca, Jl-Aug (EPV-CU).

## SUBFAMILY ASOPINAE

## STIRETRUS Laporte

- 207 **S. anchorago** Fab. Rochester, Jl, *Wendt* (Ols); Ithaca, Je, Aug (EPV-CU); NYC, *Wat* (Brb); **LI**: Rockaway, Je, *Eng* (Ols). These belong to var. *fimbriatus* Say. Predacious, as are all of the members (Brb).

## PERILLUS Stål

- 215 **P. splendidus** Uhl. **SI**: St. George, Jl 5, 1917, in house at light, *Ds* (Brb).
- 216 **P. bioculatus** Fab. Buffalo, Nov, Elma, Aug, *MCV* (EPV); Batavia, Aug-Sep (Kngt); **LI**: Yaphank (Bno).
- 217 **P. circumcinctus** Stål. St. Lawrence (EPV); Cranberry L., Jl-Aug (Drk); Iliion (EPV-NYS); Buffalo, Je-Aug (EPV); Hamburg, Lancaster, Elma, Je (EPV); Batavia, Jl (Kngt); Ithaca, Jl (EPV-CU); Callicoon, Jl (Ds); White Plains, Jl (Bno); **SI**, Je (Ds); **LI**: Rockaway Beach, *Eng* (Ds); Roslyn (Bks); Montauk (*Schott*); Long Beach, *Eng* (Sf-BM); Central Pk., *Doll* (Sf-BM); Yaphank, usually in company with bright blue larvae of a chrysomelid beetle, often numerous (Bno); May.
- 218 **P. exaptus** Say. New Russia (EPV-NYS); Mt. Whiteface, Aug (Ds); Cranberry L., Aug (Drk); Mosholu, Je, *Bno* (EPV); Van Cort. Pk., May (Brb); **SI**, Jl (Ds); **LI**: Montauk, Little Neck (*Schott*); Long Beach, *Eng* (Sf-BM); Rockaway Beach, *Ds*, *Sf* (Ols); Ap-Jl.

## MINEUS Stål

- 221 **M. strigipes** H-S. Essex Fells, Aug, *Nic* (Sf-BM); Cranberry L., Jl-Aug (Drk); White Plains, Ap, Jl, Sep (Bno); Mosholu, *Bno* (EPV); Van Cort. Pk., Jl (Brb); **SI**, Feb, Je-Jl, sifting (Brb, Ds); **LI**:

Huntington, *Schott* (Ols); Wading R. (Ds); Massapequa, *Shoe* (Ds); Cold Sp. Harb. (Brb); Flatbush, *Zab* (Brb-AM); Maspeth (Ols); Rockaway Beach (Brb); Long Beach, *Eng* (Sf-BM); Wyandanch, Mar, *Schott* (Bno); Mar, May-Oct.

## APATETICUS Dallas

- 224 **A. cynicus** Say. Buffalo, Je, Sep, Gowanda, Colden, Lancaster, Aug (EPV); predacious, particularly on caterpillars; Newport, Aug (EPV-NYS); Manlius, Aug, *SmHH* (EPV-CU); Batavia, Aug (Kngt); Jamestown (Lint); Ithaca, Jl-Sep (EPV-CU); New Baltimore, Jl, *Zab* (Brb); Callicoon, Jl, E. Jewett, Aug (Ds); Allaben, Aug, *Pears* (Ols); Debruce, *Dow* (Bno); West Pt., Jl, *Sf* (Brb); White Plains, Aug (Bno); Sloatsburg (Brb); **SI**, Jl-Aug (Ds); **LI**: Yaphank, Jl, *Ds*, *Schott* (Ols); Fire I. (Schott); Amagansett (Sf); North Beach, *Schott* (Ols); Orient, Montauk, Wading R., Central Pk. (Ds); Long Beach, *Shoe* (Ds); Jl-Sep.
- 225 **A. bracteatus** Fitch. L. Placid, Sep, *Eng* (Sf-BM); Batavia, Jl, Sep (Kngt); Hamburg, Aug (EPV); Jamestown (Lint); E. Jewett, Aug (Ds); **SI**, Sep (Ds); **LI**: Rockaway Beach (Brb, Ols); Glendale, *Doll* (Sf-BM); Fire I. (Ds); Flatbush, *Zab* (Brb); Jl-Oct.

## PODISUS Herrich-Schaeffer

- 227 **P. maculiventris** Say. Common all over the State (Brb). Mt. Whiteface, *Lg* (Brb); Axton, Je, *M&H* (EPV); Cranberry L. (Drk); Cascade L., Aug (Brb-AM); Onondaga Co, May, *H* (Huss); Fayetteville (EPV-CU); Rochester, Jl, *Wendt* (Ols); Buffalo, May-Sep (EPV); Gowanda, Aug, Hamburg, Jl (EPV); Batavia, Je-Sep, Portageville, Je (Kngt); Ithaca, May-Oct, *div.* (EPV-CU); Albany, May (EPV-NYS); Karner, Oct (EPV-NYS); L. George, Sep, *Zab* (Brb-AM); Coeymans, *EBSmith* (Lint); W. Hebron, Aug-Sep, *Lg* (EPV, Ds); Callicoon, Jl, Olivera, Sep (Ds); Saugerties, Jl (Brb); Pine I., Sep (Brb); Scarsdale, Aug (Bno); Kings Bridge, Sep (Brb); White Plains, Feb, Sep (Bno, Huss); Mosholu, Je-Oct (Bno-AM); Ft. Montgomery, Jl, Ramapo, May (Ds); **SI**, Ap-Nov (Ds); **LI**: Long Beach, Amagansett, *Eng* (Sf-BM); Flatbush, *Zab* (Ols, Brb-AM); Cold Sp. Harb. (Brb); Aqueduct (Brb, Ds); Shelter I., *Plm* (Brb); Rockaway Beach; Yaphank, Wading R., Montauk (Ds); Maspeth (Ols, Ds); Orient, *Ds*, Hempstead, Wyandanch (Ols); Huntington, *Schott* (Ols); Canarsie (Ols); Central Pk. (Ds); May-Oct.
- 227½ **P. fretus** Ols. **LI**: Wyandanch, *Schott* (Ols); Rockaway Beach, *Nic* (Ols); Promised Land, Sep (Ds); Ap-Sep.
- 228 **P. serieventris** Uhl. All over the State (Brb). Axton, *M&H* (EPV); Mt. Whiteface, Jl (Ds); Cranberry L., Je-Sep (Drk); L. Placid, Aug (EPV); Rochester, Jl, *Wendt* (Ols); Helderbergs, Jl, *Wat* (Brb); Slide Mt., Jl (Ds); White Plains, Dec, sifting (Bno); Bronx Pk., Mar, *Wat* (Brb); **LI**: Huguenot (Brb-AM); Farmingdale, Patchogue (Ds); Bay Shore (Ols); Long Beach, *Eng* (Sf-BM); Yaphank, *Bno*, *Eng* (Sf-BM); Sea Cliff (Bks); Amagansett, *Eng* (Ols); Rockaway Beach, *Bno*, *Dickerson* (Bno, Brb); Oyster Bay, Aug (Bno); May-Oct.
- 229 **P. modestus** Dall. All over the State (Brb). Axton, Je (*M&H*); Ilion, Newport, Johnstown, Elm L., Aug-Sep (EPV-NYS); Cranberry L.,

- Je-Sep (Drk); Cascade L., Aug (Brb); Mt. Whiteface, JI (Ds); Conesus, Aug (Ds); Buffalo, May-Sep, Gowanda (EPV); Batavia, Aug, Portageville, May (Kngt); Branchport, Je, *Snow* (Lint); Ithaca, Je-Sep (Kngt, EPV-CU); Mud Cr., Tompkins Co, Je (EPV-CU); Four Mile, JI (Kngt); Phoenicia, Aug (EPV); Slide Mt., JI (Ds); Oliverea, Je, *Shoe*, Ulster Co, Sep, *Nic* (Ds); Stanford, Aug (EPV); West Pt., JI, Sep (Brb, Ds); Kiamesha; Bangall, Sep, *Eng* (Sf-BM); Scarsdale, Aug-Sep (Bno); Ramapo, Sep (Ds); Ft. Montgomery, Sep (Schott); **LI**: W. Nyack, Aug (Bno); Fire I. (Schott); Amagansett, *Ds*, *Eng* (Sf-BM); Selden (Ds); Yaphank, *Ds* (Brb); Flatbush, *Zab* (Brb, Ols); Brooklyn, *Dow* (Ols); Wading R., Rockaway Beach (Brb); Long Beach, *Schott* (Ols); Ap-Sep.
- 230 **P. placidus** Uhl. Spread all over the State (Brb). Cranberry L., Je-Aug (Drk); Rochester, JI, *Wendt* (Ols); Batavia, Je-Aug (Kngt); Rock City, JI (Kngt); Four Mile, Je (Kngt); Karner, May (EPV-NYS); West Pt., Je (Ds); Pine I., Je (Brb); **SI**, Je-Sep (Ds); **LI**: Fire I., Aug (*Ds*, *Schott*); Wyandanch (div.); Rockaway Beach, *Eng* (Ds, Sf-BM); Amagansett, *Eng* (Sf, Ds-BM); Yaphank, *div.* (Brb, Bno-AM); Wading R., *Ds* (Brb, Ols); Pinelawn, *Ds* (Brb, Ols); Flushing, *Zab*, Shelter I., *Plm* (Brb); Riverhead, Coram, Central Pk., Half Way Hollow Hills, Massapequa (Ds); Oakdale, *Schott* (Ols); Aqueduct, *Ds*, Wyandanch, *Schott* (Ols).

## FAMILY COREIDAE

## SUBFAMILY MEROCORINAE

## MEROCORIS Perty

- 236 **M. distinctus** Dall. Hamburg, Mar, JI, Oct, Boston, Aug (EPV); Ithaca, (Morr); L. George, Aug, *Zab* (Brb-AM); Karner, Sep (EPV-NYS); Ulster Co, Sep, *Nic* (Ds); Saugerties, JI (Brb); Sullivan Co, *GFrank* (Ols); Pine I., Sep (Brb); Nyack, *Zab* (Brb-AM); White Plains, Sep-Oct, *Ds* (Bno); Mosholu, JI, *Bno* (Heid); Ft. Montgomery, JI (Bno, Ds); Van Cort. Pk., Sep (AM); **SI**, Je-Sep (Ds); **LI**: Yaphank, Amagansett, Wading R., Montauk, Half Way Hollow Hills, Pinelawn (Ds); May-Sep. Considered as a var. of *typhaeus* Fab. by EPV and as a subspecies of the same by McAtee.

## SUBFAMILY COREINAE

## ACANTHOCEPHALA Laporte

- 242 **A. terminalis** Dall. West Pt., Je (Ds); Scarsdale, Sep (Bno); Ft. Montgomery, May-Je (Brb, Schott); Crugers, Je (Brb-AM); Ramapo, May (Ds); White Plains, JI (Bno); Mosholu, Sep, *Bno* (Heid); Van Cort. Pk., JI (Ds); NYC (Brb); **SI**, May-Sep (Ds); **LI**: Wyandanch, *Schott* (Ols, Bno); Hempstead (Ols); Wading R., *Ds* (Brb); Je-Sep.

## LEPTOGLOSSUS Guérin

- 244 **L. phyllopus** L. **LI**, *Gibbs* (Uhl). This is a very unusual record, possibly an error (Brb).
- 246 **L. corculus** Say. **SI**: St. George, Oct (Ds); **LI**: Hempstead (Ols); Rockaway Beach, *div.* (Ds, Ols); May-Sep.



- 248 *L. oppositus* Say. **SI**, Oct (Ds); **LI**: Cold Sp. Harb., from mulberry (Brb); JI.
- 249 *L. fulvicornis* Westw. Buffalo, Oct (EPV); White Plains, JI (Bno); **LI**: Rockaway Beach, Oct, *Schott* (Brb). Usually on magnolia.

## ARCHIMERUS Burmeister

- 271 *A. alternatus* Say. West Pt., Je-JI (Brb, Ds); Nyack, Je-JI (Ds, Brb); Ft. Montgomery, May (Brb); White Plains, JI-Sep (Bno); Mosholu, May-JI, *Bno* (Heid); Van Cort. Pk., Sep (Brb-AM); **SI**, Ap, JI, Sep (Ds); **LI**: Forest Hills, Sep-Oct (Parsh, Ols); Brooklyn, May, *Nic* (Ols); Cypress Hills, May, *Zab* (Brb-AM); Rockaway Beach, Je, *Schott* (Bno).

## EUTHOCHTHA Mayr

- 276 *E. galeator* Fab. Hastings, JI, *Jouët* (Brb); Karner, Je (EPV-NYS); Pine L., Je, *Ds* (Brb); Big I., Sep (Brb-AM); White Plains, JI-Aug (Bno); Ft. Montgomery, Oct (*Schott*); Mosholu, Sep, *Bno* (Heid); **SI**, Je-Sep (Ds); **LI**: Aqueduct (Ds); Forest Hills (Ols); JI-Sep.

## CHARIESTERUS Laporte

- 283 *C. antennator* Fab. Van Cort. Pk., JI (Brb-AM); **SI**, Je (Ds); **LI**: Rockaway Beach (*Schott*); Brooklyn, *Eng* (Sf-BM); Jan, Oct. Not common, found on dogbane (Brb).

## ANASA Amyot and Serville

- 301 *A. tristis* DeG. SQUASH BUG. All over the State, injurious to squash, melons, and other cucurbits (Brb). Honeoye Falls, Je (Ds); Buffalo, Je (EPV); Colden, Mar (EPV); Karner, Oct (EPV-NYS); Alfred, Aug, *HCCoon* (Lint-NYS); Coeymans, *SmEB* (Lint-NYS); White Plains, Je-Sep (Bno); Yonkers, Sep (Huss); White L., Sep (Brb-AM); West Pt., Oct (Ds); **SI**, Aug-Oct (Ds); **LI**: Flatbush, JI-Sep, *Zab* (Brb-AM); Maspeth, Bay Shore, Aqueduct, Yaphank (Ols); Queens Village (Ols); Lynbrook, *Nic* (Ols); Je-Oct.
- 304 *A. repetita* Heid. Inwood, Oct (Ds); NYC, Oct, *Schott*, *Wat* (Ols, Brb); **LI**: Maspeth, Aug-Oct (Ols). Wild cucumber.
- 307 *A. armigera* Say. **LI**: Cold Sp. Harb. (Brb); Rockaway Beach (div.); JI, Oct.

## SUBFAMILY CORISCINAE

## (Alydinae)

## PROTENOR Haglund

- 312 *P. belfragei* Haglund. Saranac L., Sep (Ds); L. Placid, Aug-Sep, *Eng* (Sf, EPV-BM, NYS); Wilmington, Aug (EPV); Cranberry L., JI-Sep (Dke); Buffalo, Nov (EPV); Lancaster, Aug (EPV-CU); McLean, Sep (Ruckles); White Plains, May-Oct (Bno); **SI**, Aug (Ds); **LI**: Aqueduct, Brooklyn (Ds); Jamaica, Aug, *Eng* (Sf-BM); Aug.

## MEGALOTOMUS Fieber

- 320 *M. 5-spinosus* Say. Keene Val., Sep, *Not* (Brb); Chilson L., JI, *Wat* (Brb); Hastings, JI, *Eng* (Sf, Ds-BM); Rochester, Aug (EPV); Niagara

Falls, Aug, *Kilman* (EPV); Salamanca, Jl (EPV); Ithaca, Jl-Aug (EPV-CU); Binghamton, Jl (Brb-AM); Karner, Aug (EPV-NYS); Callicoon, Jl (Ds); Huguenot, Aug, *Zab* (AM); Ramapo, Je, Sep, *Bt* (Ds, Brb-AM); Ft. Montgomery, Sep-Jl (Schott, Ds); Bryn Mawr Pk., Jl (Brb-AM); White Plains, Jl-Sep (Bno); Mosholu, Je-Aug, *Bno* (Heid); **SI**, Jl-Sep, *Ols* (Ds); **LI**: Flatbush, *Zab* (Brb); Queens (Schott); Selden (Ds); Yaphank, *Eng* (Ds, Sf); Calverton (Ds); Amagansett, Smithtown (Ds); Forest Hills (Ols); Wyandanch, Oakdale, *Schott* (Ols, Bno); Jl-Oct.

## CORISCUS Schrank

(*Alydus* Fabricius)

- 323 **C. eurus** Say. Distributed throughout the State (Brb). Essex Co, Je (EPV-NYS); N. Elba, Oct, *Lg* (Ds); Wilmington, Jl (Ds); Cascade L., Aug (Brb); Cranberry L., Jl (Dke); Hastings, Jl, *Joulet* (Ds); Buffalo, Je-Jl (EPV); Hamburg, Sep, Conesus L., Aug (EPV); Callicoon, Jl (Ds); Catskills, Jl, *Eng* (Sf-BM); Grand View, Nyack, Je (Ds); White Plains, Jl-Sep (Bno); Mosholu, Mar-Oct, *Bno* (Heid); Scarsdale, Jl-Sep (Bno); Ft. Montgomery, Jl (Ds); Bangall, Sep, *Eng* (Sf-BM); Kings Bridge, Sep (Brb); Bryn Mawr, Sep (Brb-AM); Van Cort. Pk., Sep (Ds); **SI**, Je-Sep (Ds); **LI**: Pinelawn, Bellport (Ds); Yaphank (Ols, Ds); Rockaway Beach, Kissena Pk., Flushing, Hempstead (Ols); Long Beach (Brb-AM); Wading R. (Schott); Je-Sep.
- 324 **C. conspersus** Montandon. Cranberry L. (Dke); Long L. (Ds); Cascade L., Indian L., Aug (Brb); Keene Val., *Not* (Brb); Buffalo, Hamburg, Jl-Sep (EPV); Ithaca, Jl, *Shull* (Huss); L. George, Aug, *Zab* (Brb); White Plains, Je-Sep (Bno). Mostly northern part of the State.
- 327 **C. pilosulus** H-S. Wilmington, Jl (Ds); Ithaca, Jl, *Shull* (Huss); Karner, Aug, Kingston, Aug (EPV); White Plains, Jl-Oct (Bno); Grand View, Nyack, Je (Brb); Ft. Montgomery, Jl (Ds); Mosholu, Je-Jl, *Bno* (Heid); Scarsdale, Jl-Sep (Bno); Kings Bridge, Sep (Brb); **SI**, Je-Sep (Ds); **LI**: Brooklyn, Aqueduct, Half Way Hollow Hills, Pinelawn, Yaphank (Ds); Amagansett, *Eng* (Ds); Bellport, *Nic* (Ds); Central Pk., *Eng* (Sf-BM); Rockaway Beach, *Eng* (Sf-BM); Flushing, Wyandanch, Wading R., Maspeth, Hempstead, Bay Shore, Pinelawn (Ols); Forest Pk., *Bno* (Heid); Oakdale, *Schott* (Bno); Je-Sep.

## TOLLIUS Stål

- 328 **T. curtulus** Stål. Kings Bridge, Sep (Brb). Rare.

## STACHYOCNEMUS Stål

- 330 **S. apicalis** Dall. Uncommon (Brb). White Plains, Sep (Bno); **LI**: Aqueduct (*div.*); Woodhaven (Brb-AM); Ap, Sep.

## CERALEPTUS Costa

- 332 **C. americanus** Stål. Rare (Brb). **LI**: Rockaway Beach, Oct, *Schott* (Ols).

## SUBFAMILY CORIZINAE

## HARMOSTES Burmeister

- 336 **H. reflexulus** Say. Gowanda, Aug, Ithaca, Jl-Aug (EPV); Carmel, Aug (Brb-AM); Poughkeepsie, Sep (EPV-NYS); Ulster Co, Aug, *Nic* (Ols); Pine I., Je (Brb); Saugerties, Aug (Brb); Ramapo, May, *Bno* (Ds); Ft. Montgomery, Jl, *Bno* (Ds); White Plains, Jl-Oct (Bno); Scarsdale, Aug (Bno); Mosholu, Aug-Sep (Bno); **SI**, Jl-Oct (Ds); **LI**: Yaphank (Brb-AM); Orient (Brb-AM); Aqueduct (Ds, Brb); Massapequa, Manorville (Ds); Cold Sp. Harb. (Ds, Brb); Wading R. (Brb, Ds); Pinelawn, Calverton, *Eng* (Sf-BM); Bay Shore (Ols); Huntington, *Schott* (Ols); Little Neck, Feb, Wyandanch, Oct, *Schott* (Bno); May-Oct.

## CORIZUS Fallén

- 345 **C. crassicornis** L. Keene Val, Aug, *Not* (Brb); Cranberry L., Jl-Aug (Dke); L. Placid, Sep (EPV); Axton, Je (M&H); Wilmington, Jl, Saranac L., Sep (Ds); Cascade L., Indian L., Aug (Brb); Hamburg, May, Jl, Boston, Elma, Aug, Lancaster, Gowanda, Aug (EPV); Batavia, Aug (Kngt); Wyoming Co, Sep (Kngt); Rock City, Je (Ds); Otto, Jl (Hambleton-CU); Ithaca, Jl-Aug, Freeville, Aug (Hambleton-CU); Phoenicia, Aug (EPV-NYS); Debruce, Sep (Ds).
- 348 **C. lateralis** Say. All over the State (Bks). Cranberry L., Jl (Dke); Buffalo, Je, Gowanda, Aug, Hamburg, May-Je (EPV); Batavia, Je (Kngt); Ithaca, Jl (Hambleton-CU); Coy Glen, Je (Ds); Albany, Je (NYS); Mosholu, Jl-Aug, *Bno* (Heid); White Plains, Jl-Sep (Bno); Scarsdale, Aug (Bno); Kings Bridge, Sep (Brb); Van Cort. Pk., Sep (Bno); **SI**, Aug-Oct (Ds); **LI**: Winfield (Ols); Little Neck (*Schott*); Orient (Brb-AM); Flatbush, *Eng* (Sf-BM); Long Beach, Pinelawn, *Eng* (Sf-BM); Maspeth, Yaphank, Hempstead, Canarsie, Bay Shore (Ols); Aqueduct, Central Pk., Massapequa (Ds); May-Nov.
- 349 **C. bohemanii** Sign. Axton, Je (M&H); L. Placid, Sep (EPV); Keene Val., Je, *Not* (Brb); Cascade L., Aug (Brb); Hamburg, Colden, Jl, Buffalo, May-Oct, Gowanda, Aug (EPV); Genesee Co, Wyoming Co, Je (Ds); Ithaca, Je-Sep (Hambleton-CU); Ellis, Slaterville, Mud Cr., Tompkins Co, Je (Hambleton-CU); L. George, Aug, *Zab* (Brb-AM); Phoenicia, Aug (EPV-NYS); Oliveria, Jl, *Shoe* (Ols); Saugerties, Aug, West Pt., Jl (Brb); White Plains, Aug-Sep (Bno).
- 355 **C. hirtus** Bno. **LI**: Yaphank, Sep, *Eng*, Fire I., Jl (Bno). Found hibernating under *Hudsonia* (Brb).

FAMILY ARADIDAE<sup>13</sup>

## ARADUS Fabricius

- 360 **A. aequalis** Say. Niagara Falls, May (EPV); Ithaca, Ap, *Alex* (Parsh); McLean, May (Parsh); W. Hebron, Je, *Lg* (Heid).
- 379 **A. crenatus** Say. Keene Val., Sep, *Eng* (Parsh); Ithaca, May, West Pt., Je, *Ds*, Catskills (Parsh).
- 361 **A. quadrilineatus** Say. Cranberry L., Jl (Drk); Cobble Hill, Aug (EPV); Mt. Whiteface, Jl, *Ds* (Parsh); Fulton Co, *Alex* (Morr); Niagara

<sup>13</sup> The arrangement of species in this family is that of Parshley's *Essay*.

- Falls, Ap (EPV); Buffalo, Oct, *EPV* (Parsh); Colden, May, Hamburg, Je, *EPV* (Parsh); Lancaster, *EPV* (Bergroth); Ithaca, Ap, *Plunkett* (Parsh); L. George, Jl, *Zab* (Parsh); Schenectady, Aug (Parsh); West Pt., Je, *Ds* (Parsh); Southfields, May, *Schott* (Parsh); Sloatsburg, Nov (Parsh); Ft. Montgomery, May (Parsh); White Plains, Ap, *Bno* (Parsh); **SI**, Ap-May, *Ds* (Parsh); **LI**: Rockaway Beach, *Brb* (Parsh); Wyandanch (Schott); L. Ronkonkoma (Schott); Yaphank, *Nic* (Parsh); Promised Land, *Eng* (Bno); Ap-Dec.
- 365 **A. ornatus** Say. Cranberry L., Jl (Drk).
- 362 **A. robustus** Uhl. Occurs throughout the State (Brb). Cranberry L., Jl (Drk); Wilmington, Jl (Ds); top of Mt. Whiteface, Jl, *Ds* (Parsh); Orleans Co, Je, *Ds* (Parsh); Gowanda, Aug, Colden, May, *EPV* (Parsh); E. Concord, May, *EPV* (Bergroth); Ithaca, Ap, *Plunkett* (Parsh); Batavia, May (Kngt); DeBruce, Jl, *Ds* (Parsh); Sloatsburg, Nov, *Schott* (Ols); White Plains, Je, Dec, *Bno*, *Ols* (Parsh, Huss), from sifting; Ft. Montgomery, Je, *Ds* (Heid); **LI**: Rockaway Beach (Ds); Flatbush, *Zab* (Brb); Wyandanch, Cold Sp. Harb., *Sf*, *Schott* (Parsh); Mar-Je.
- 364 **A. duzei** Bergr. Rochester, *Wendt* (Bergr); Ithaca (Bergr).
- 392 **A. proboscideus** Wlk. (*hubbardi* Heid.). Cranberry L., Jl, *Drk*, Saranac L., Sep (Parsh).
- **A. basalis** Parsh. Saranac L., Sep, *Ds* (Parsh).
- 371 **A. similis** Say. Top of Mt. Whiteface, Jl (Ds); Cranberry L., *Drk* (Parsh); Lake Bluff, Je (EPV); Lancaster, *EPV* (Bergr); Ithaca (Parsh); Chauncey, Mar, *Not* (Parsh); White Plains, Mar-Apr, *Bno* (Parsh); Van Cort. Pk., *Aug* (Parsh); **SI**: Ap, *Ds* (Parsh); **LI**: Yaphank, May, *Ols* (Parsh); Rockaway Beach, May (Brb); Huntington, Ap, *Schott* (Ols); Ap-May. Under spruce and hemlock bark (Drk), and in shelf fungus on birch.
- 375 **A. acutus** Say. **LI**: Huntington, Wyandanch, *Schott* (Bno).
- 377 **A. shermani** Heid. **LI**: Yaphank, Je, *Eng* (Bno).
- A. approximatus** Parsh. **LI**: Wyandanch, Je, *Schott* (Parsh).
- 384 **A. uniformis** Heid. West Pt., Je, *Sf* (Parsh); **LI**: Flatbush, *Zab* (Parsh); Rockaway, *Brb*, *Ds*, Fire I., *Bno*, Wyandanch, *Sf* (Parsh); Huntington, Ronkonkoma (Schott); Mar-Jl.
- 382 **A. tuberculifer** Kby. Cranberry L., Jl, *Drk* (Parsh); Ithaca, Je (Uhl); **LI**: Rockaway Beach, Je, *Ds* (Parsh).
- 383 **A. funestus** Bergr. Buffalo, Feb, hibernating (EPV).
- 386 **A. lugubris** Fall. Cranberry L., Jl (Drk); Rochester Jct., Je, *Leon* (Parsh); Buffalo, Je, Hamburg, Aug, Colden, Jl, *EPV* (Bergr); Ithaca, May (Parsh); Nyack, *Zab* (Parsh); White Plains, Jl (Bno); **LI**: Bay Shore, *Ols*, Flatbush, *Schott* (Parsh); Je, Sep.
- 387 **A. abbas** Bergr. All over the State (Brb); Axton, Je (M&H); Cranberry L., Je-Jl (Drk); Saranac L. (Parsh); Colden, Jl, *EPV* (Bergr); Hamburg, Je (EPV); Buffalo, May, *MCV* (EPV); Ithaca, Jl, *Plunkett* (Parsh); Huguenot, Jl (Brb-AM); Saugerties, Jl, *Brb* (Parsh); White Plains, Aug, *Bno* (Parsh); **LI**: Bay Shore, *Ols* (Parsh); Fire I., *Bno*, Wading R., *Schott*, Maspeth, *Ols* (Parsh); Rockaway Beach, *Eng* (Bno); Ap-Sep.
- **A. uniannulatus** Parsh. **LI**: Pinelawn, Je, *Ds* (Parsh).

- 389 **A. falleni** Stål. White Plains, Feb (Bno), sifting; **SI** (Ds); **LI**: Rockaway Beach, Yaphank, *Bno* (Parsh).
- 391 **A. cinnamomeus** Panz. **SI**, Je (Ds); **LI**: Bay Shore, *Ols*, Wyandanch, *Schott*, *Ds*, Yaphank, *Ols*, *Bno*, Central Pk., Pinelawn, *Ols* (Parsh); Cold Sp. Harb., Aug (Bno); Amagansett (Ds); Huntington, Wyandanch, Wading R., L. Ronkonkoma, *Schott* (Bno); Ap-Sep. Frequents pine (Brb).
- 395 **A. niger** Stål. Ausable R., Aug (EPV); Cranberry L., Jl (Drk); Buffalo, Sep (EPV); Hamburg, Sep, Ithaca, Ap, *EPV* (Parsh); L. George, Aug, *Zab* (Parsh). Bark of dead pines (Brb).

## NEUROCTENUS Mayr

- 408 **N. simplex** Uhl. Ithaca, May (Morr); White Plains, Aug (Bno); NYC, Ap (Brb); **SI**, Ap-May (Ds); **LI**: Hempstead Plains (Eng); Massapequa, *Shoe*, Yaphank (Ds); Wyandanch, *Schott* (Bno); May-Sep.

## ANEURUS Curtis

- 414 **A. inconstans** Uhl. Cascade L., Aug (Brb); Keene Val., Je, *Not* (Brb); Cranberry L., Je-Jl (Drk); Niagara Falls, Ap (EPV); Buffalo, Feb-Apr, Hamburg, May, Sep, Colden, May, Gowanda, Aug (EPV); E. Jewett, Aug (Ds); White Plains (Bno); Rye L., Sep (Bno); Grand View, Nyack, Je (Brb); Tuckahoe, Nov, *Schott* (Parsh); **LI**: Rosedale, *Schott* (Parsh); Rockaway Beach (Ds); Yaphank (Brb); May-Nov.
- 415 **A. simplex** Uhl. Cranberry L., Jl (Drk); Van Cort. Pk., Mar (Brb); **LI**: Queens Village, Wyandanch, *Schott* (Parsh); Central Pk., *Eng*, Jamaica, Huntington, *Schott* (Parsh); Northport, *Schott* (Ols); Cypress Hills, *Zab* (Brb-AM); Feb-Aug. Common under bark (Brb).
- 417 **A. fiskei** Heid. West Pt., Aug, *Robn* (BM); White Plains, Jan-Apr, Sep-Nov (Bno); Rye L., Sep (Bno); **SI**, Je (Ds); **LI**: Wyandanch, *Schott* (Ols); Yaphank (Brb); Queens, *Sf* (Bno); Cold Sp. Harb., *Butler* (Huss); May-Sep.

## FAMILY NEIDIDAE or BERYTIDAE

## SUBFAMILY NEIDINAE Van Duzee

## NEIDES Latreille

- 419 **N. muticus** Say. Cascade L., Indian L., Aug (Brb); Keene Val., Sep, *Not* (Brb); L. Placid, Sep, *Eng* (Bno); Cranberry L., Jl-Aug (Drk); Colden, Jl, Lancaster, Aug (EPV-CU); Batavia, Je-Aug (Kngt); Portageville, May-Aug (Kngt); Rock City, Je (Ds); Ithaca, Jl, Oct, *Bks* (EPV, Kngt-CU); McLean, Ap (Morr); Taughannock Falls, Jl, *Summers* (EPV-CU); Phoenicia, Aug (EPV-NYS); L. George, Jl-Sep, *Zab* (AM); West Pt., Je (Ds); Pine L., Je-Oct (Brb); Nyack, Je (Brb, Ds); Ft. Montgomery, Sep, *Schott* (Ols); White Plains, Jl-Sep (Bno); **SI**, Aug (Ds); **LI**: Cold Sp. Harb., Aug (Brb).



## SUBFAMILY METACANTHINAE

## JALYSUS Stål

- 420 *J. multispinus* Ashm. **LI**: Bayville (Brb-AM).  
 421 *J. spinosus* Say. Lancaster, Aug (EPV); Ithaca, Aug (CU); DeBruce, Sep (Ds); West Pt., Je-Jl (Brb, Ds); Ramapo, May (Ds); Nyack, May (Schott); White Plains, Ap-Sep, Scarsdale, Aug-Sep, Rye L., Sep (Bno); **SI**, Sep (Ds); **LI**: Yaphank (Bno, Brb); Cold Sp. Harb. (Brb); Bay Shore, Maspeth, Queens Village, Wyandanch (Ols); Flatbush, *Zab* (Brb-AM); Melville, Wading R., *Schott* (Bno); May-Oct.

## FAMILY LYGAEIDAE

## SUBFAMILY LYGAEINAE

## ONCOPELTUS Stål

- 432 *O. fasciatus* Dall. NYC, *Geisell* (Ols); **SI**, Je-Oct (Ds); **LI**: North Beach, *Schott* (Ols); Coram (Ds); Cold Sp. Harb. (Brb); Glendale, *Kch*, Bellport, *Nic*, Floral Pk. (Sf-BM); Aug-Sep.

## LYGAEUS Fabricius

- 434 *L. turcicus* Fab. Lancaster, *Palmer, Jr* (EPV); **LI**: Flatbush, Dec, *Eng* (Bno).  
 437 *L. kalmii* Stål var. *angustomarginatus* Parsh. Throughout the State, on milkweed (Brb). Cranberry L., Jl-Aug (Drk); Axton, Je (M&H); top of Mt. Whiteface, Jl, Wilmington, Jl (Ds); Hastings, Jl, *Joutel* (Ds); Lancaster, Aug (EPV-CU); Buffalo, Je (EPV-CU); Hamburg, Ap (EPV); Batavia, Je-Aug (Kngt); Aurora, Jl (Brb-AM); Ithaca, Aug, Oct (EPV, Morr, Huss); Callicoon, Jl (Ds); Fallsburg (Huss); Saugerties, Jl (Brb); Pine L., Je (Ds); White Plains, Jl (Bno); Rye Pond, Je (Brb-AM); **SI**, Je-Aug (Ds); **LI**: Flatbush, *Zab* (Brb-AM); Maspeth, Bay Shore (Ols); Rockaway Beach, *Shoe* (Ols); Aqueduct, *Ds* (Brb); Massapequa, *Ds* (Brb); Calverton (Ds); Orient, *Lath* (Ds); Wading R., Cold Sp. Harb. (Brb); Je-Oct.  
 452 *L. bicrucis* Say. **SI**: Watchogue, May (Ds); **LI**: Rockaway Beach, May-Je, *Eng* (Ds, Sf-BM), May, *Nic*, *Shoe*; Half Way Hollow Hills, Jl (Ds).  
 460½ *L. tripunctatus* Dall. **LI**: Yaphank, Jl, *Bno* (Brb).

## ORTHOLOMUS Stål

- 461 *O. scolopax* Say (*longiceps* Stål). Throughout the State, on grasses (Brb).  
 462 Indian L., Cascade L., Aug (Brb); Keene Val., Aug, *Not* (Brb); Cranberry L., Jl-Aug (Drk); Buffalo, Jl, Sep, Hamburg, Jl-Sep (EPV); Aurora, Jl (Brb-AM); L. George, Aug, *Zab* (Brb-AM); Karner, Aug, Jl, *Wat*, *Yg* (Brb-NYS); Kingston, Aug (EPV-NYS); Saugerties, Aug, Pine I., Sep (Brb); White Plains, Je-Sep (Bno); **SI**, Sep (Ds); **LI**: Winfield, Maspeth, Bay Shore, Yaphank (Ols); Brooklyn (Ds); Orient, *Schott*, Aqueduct (Brb); Jl-Oct.

## NYSIUS Dallas

- 466 **N. californicus** Stål. Cascade L., Aug (Brb).  
 468 **N. thymi** Wolff. Cascade L., Aug (Brb); Keene Val., Aug, *Not* (Brb); L. Placid, Sep (EPV, Ds); Buffalo, May-Aug (EPV); L. George, Aug, *Zab* (Brb-AM); E. Jewett, Aug (Ds); **LI**: Wyandanch, Je, *Schott* (Bno).  
 470 **N. ericae** Schill. FALSE CHINCH BUG. All over the State, on grasses, etc. (Brb). Axton, Je (M&H); Speculator, Aug (NYS); L. Placid, Aug-Sep (EPV); Cranberry L., Jl-Aug (Drk); Hamburg, Aug (EPV); White Plains, Mar-Oct (Bno); **LI**: Sea Cliff, *Bks* (EPV); Cold Sp. Harb., *Butler* (Brb, Huss); Orient (Brb-AM); Yaphank, *Eng* (Ols, Ds, Bno); Huntington, *Schott* (Brb, Ds); Wyandanch, *Schott* (Brb, Ols); Bay Shore, Maspeth, Hempstead (Ols); Aqueduct, *Ds* (Brb); Ap-Oct.

## BELONCHILUS Uhler

- 473 **B. numenius** Say. Buffalo, May, Colden, Aug (EPV).

## SUBFAMILY CYMINAE

## ISCHNORHYNCHUS Fieber

- 476 **I. resedae** Panz. (*geminatus* Say). Recorded as *I. geminatus* Say throughout the State (Brb). Axton, Je (M&H); L. Placid, Aug (EPV); Cranberry L., Jl-Aug (Drk); Cascade L., Aug (Brb); Keene Val., Je, *Not* (Brb); Mt. Whiteface, Jl (Ds); Long L., Huckleberry Mt., Cold R. (Horvath); Buffalo, May-Je, Hamburg, Jl, Gowanda, Aug, Salamanca, Jl, Elma, Je (EPV); Batavia, Aug, Portageville, May, Cattaraugus Co, Je (Kngt); West Pt., Jl, Saugerties, Aug (Brb); White Plains, Ap-Sep (Bno); **SI**, Jan-Oct, often taken sifting (Ds); **LI**: Huntington, *Schott* (Brb); Amagansett, Wyandanch, *Sf* (Bno, Ds); Cold Sp. Harb., *Butler* (Huss); Wading R., *Ds* (Brb); Orient (Brb-AM); Flatbush, *Zab* (Brb-AM); Flushing, Hempstead, Bay Shore, Central Pk., Maspeth, Port Washington, Forest Hills (Ols); Flatbush, *Eng* (Ols); Massapequa, *Shoe*, Yaphank (Ds); Huntington, *Schott* (Bno).

CYMUS Hahn<sup>14</sup>

- 483 **C. luridus** Stål. Cranberry L., Jl-Dec (Drk); Cascade, Aug (Brb); Buffalo, Jl (EPV); Pine L., Je (Brb); White Plains, May-Aug (Bno); Stony Pt., Je (Ds); **LI**: Babylon, Aug (Bno); Yaphank, May, *Ols* (Brb); Aqueduct, Fire I. (Ds); May-Oct.  
**C. robustus** Brb. Carmel (type locality), Mt. Kisco, Jl, *Bno* (Brb); **LI**: Cold Sp. Harb., Jl.  
 484 **C. angustatus** Stål. Throughout the State (Brb). Cascade L., Aug (Brb); Cranberry L., Je-Aug (Drk); Adirondacks (EPV); L. Placid, Sep (EPV); Newport, May, *Yg* (NYS); Lancaster, Aug (EPV-CU); Buffalo, May-Oct (EPV); Batavia, Je-Jl, Portageville, May, Aug, Cattaraugus Co, Je (Kngt); Karner, May, *Yg* (NYS); Saugerties, Aug, Pine I., Je (Brb); Tuxedo, May (Brb); White Plains, May-Je, Scarsdale, May, Rye Beach, Jl (Bno); **SI**, Mar, Aug (Ds); **LI**: Cold Sp. Harb. (Brb); Flushing (Ols, Ds); Massapequa (Ds); Yaphank (Ols, Ds); Wading R. (Ds); Maspeth, Forest Hills (Ols); May-Aug

<sup>14</sup> Members of this genus occur on grasses and sedges.

- 485 **C. discors** Horv. Throughout the State (Brb). Axton, Je (M&H); L. Placid, Sep, Adirondacks, Aug-Sep (EPV); Long L., Cold R. (Horv); Cranberry L., Je-Sep (Drk, Brb); Cascade L., Aug (Brb); Keene Val., Je, *Not* (Brb); Newport, May, *Yg* (NYS); Buffalo, Jl (EPV); Hamburg, May, Jl, Colden, Jl, Gowanda, Aug (EPV); Batavia, Jl (Kngt); L. George, Aug, *Zab* (Brb); White Plains, May-Aug (Bno); Mosholu, Nov, sifting (Brb); **LI**: Yaphank, Je (Brb); Bay Shore, Jl, Wyandanch, Aug (Ols); Je-Aug.
- 487 **C. breviceps** Stål. **LI**: Cold Sp. Harb., Aug (Bno).

## SUBFAMILY BLISSINAE

## ISCHNODEMUS Fieber

- 489 **I. falicus** Say. Oneida L., *Drk* (Brb); Buffalo, Je (EPV); Cayuga L., Oct, *Kngt* (Bno); Pine I., Je (Brb); White Plains, May-Je, Oct (Bno); Kensico, May (Bno); **SI**, Oct-Nov, sifting on edge of salt meadow (Brb); **LI**: Brooklyn, Rockaway Beach (Ols); New Lots (Brb-AM); Flatbush, Mar, *Schott* (Bno); May.

## BLISSUS Burmeister

- 496 **B. leucopterus** Say. CHINCH BUG. Throughout the State, on wild grasses (Brb). Cascade L., Indian L., Aug (Brb); Wallface Mt., Je, *Not* (Brb); Hammond (Lint); Morristown (Lint); Oakfield, Je, *Not* (Brb); Buffalo, Ap, Jl-Aug, Hamburg, May-Je (EPV); Pike, Mar (NYS); Batavia, May-Je, Portageville, May (Kngt); Lancaster (EPV); Gowanda, Aug (EPV); Norton's Landing, *SmHH* (CU); Freeville, Aug (CU); Peruville (Felt); Watervliet (Lint); Debruce, Sep (Ds); Carmel, Aug (Brb-AM); White Plains, May-Sep (Bno); NYC, Oct (Huss); **LI**: Maspeth (Ols); Flushing, *Dow* (Ols); Winfield (Ols); Rockaway Beach, May-Sep, *Ds* (Ols); Long Beach, Huntington (Schott, Bno); Flatbush, *Zab* (Brb-AM); Cold Sp. Harb. (Brb); Brighton Beach (Brb); Wading R., *Ds* (Brb); Ap-Nov.
- **B. leucopterus** var. *arenarius* Brb. **SI**, Sep, *Ds* (Brb); **LI**: Coney I., *Zab*, Rockaway Beach (Brb); Wading R. (Ds); May-Sep.

## SUBFAMILY GEOCORINAE

## GEOCORIS Fallén

- 499 **G. bullatus** Say. Speculator, Jl, *Yg* (NYS); Cranberry L., Jl (Drk); Cascade L., Indian L., Aug (Brb); Buffalo, Je, Sep (EPV); E. Aurora, Aug (EPV); Batavia, Sep (Kngt); West Pt., Jl (Brb); White Plains, May-Sep (Bno); **LI**: Little Neck, *Schott* (Brb); Aqueduct, *Ds* (Brb); North Beach, Flushing (Ols); Massapequa, Wading R. (Ds); Amagansett (Ds); May-Nov.
- 499c **G. bullatus** var. *discopterus* Stål. White Plains, May, Aug-Sep (Bno); **SI** (Ds); **LI**: Amagansett, Sep, *Ds* (Brb).
- 502 **G. uliginosus** Say. Cascade L., Aug (Brb); Cranberry L., Jl (Drk); L. Placid, Aug (EPV-NYS); Colden, Jl, Buffalo, Je, Ithaca, Sep (EPV-CU); White Plains, Sep (Bno); **LI**: Cold Sp. Harb., Aug, Aqueduct, Oct (Brb); Flatbush, Sep, *Zab* (Brb-AM); Huntington, *Schott* (Brb); Maspeth, Sea Cliff, Rockaway (Ols); Yaphank (Ols); Feb-Dec.

- G. uliginosus** var. **lateralis** Fieb. Cascade L., Indian L., Aug (Brb); Cranberry L., Aug (Drk).  
**G. uliginosus** var. **speculator** Montd. Boston, Hamburg, Aug (EPV).  
**G. uliginosus** var. **limbatus** Stål. Buffalo, Sep, Hamburg, Jl-Aug, Lawtons, Colden, Aug (EPV).

## HYPOGEOCORIS Montandon

(Isthmocoris McAtee)

- 507 **H. piceus** Say. Carmel, Aug, White Plains, Ap-Oct (Bno); Tuxedo, May (Brb); Rye Beach, W. Nyack Aug (Bno); **LI**: Flushing, Aug, Canarsie, Ap (Ols); Wyandanch, *Schott* (Brb, Bno); Huntington, Aug (Bno); Cypress Hills, *Zab* (Brb-AM); Yaphank, *Eng* (Bno); Ap-Dec.

## SUBFAMILY PACHYGRONTHINAE

## PHLEGYAS Stål

- 513 **P. abbreviatus** Uhl. Throughout the State (Brb). DeBruce, Aug, *Mutchler* (Brb-AM); Cascade L., Indian L., Aug (Brb); Keene Val., Jl, *Not* (Brb); Wilmington, Jl (Ds); Axton, Je (M&H); Buffalo, Je-Sep (CU); Hamburg, May-Je, Lancaster, Aug, Gowanda, Aug (EPV); Batavia, Je, Cattaraugus Co., Je (Kngt); Ithaca, Je-Sep (CU); L. George, Aug, *Zab* (Brb-AM); W. Hebron, Aug, *Lg* (Ds); E. Jewett, Aug (Ds); Poughkeepsie, Je (NYS); Saugerties, Aug, Pine I., Je (Brb); White Plains, Jl (Bno); Tuxedo, May (Brb); Ramapo, May (Ds); Marlborough, Jl, *Sf* (BM); **SI**, Je (Ds); **LI**: Bellport, *Nic* (Sf-BM); Cold Sp. Harb. (Brb); Bay Shore, Yaphank (Ols); Pine-lawn, Wading R. (Ds); May-Aug.

## OEDANCALA Amyot and Serville

- 515 **O. dorsalis** Say. Throughout the State (Brb). Cranberry L., Jl (Drk); Buffalo, May-Aug, Lancaster, Jl, Hamburg, May, Conesus L., Aug (EPV); Karner, Je (NYS); Saugerties, Aug, *Brb*, Ft. Montgomery, Jl, *Schott* (Brb); White Plains, Mar, Je-Jl, Dec, sifting, Armonk, Je (Bno); Charlotte, Je (Brb-AM); **LI**: Fishers I. (Brb-AM); Wyandanch (Ols); Bay Shore (Ols); Aqueduct, *Shoe* (Ols); Yaphank (Ols, Ds); Wading R. (Brb); Cold Sp. Harb., *Butler* (Huss).

## SUBFAMILY OXYCARENINAE

## CROPHIUS Stål

- 519 **C. disconotus** Say. Cranberry L., Aug (Drk); Indian L., Aug (Brb); Colden, Aug (EPV); Tompkins Co, Feb, sifting (Ruckes); Phoenicia, Aug (EPV); Pine I., Sep (Brb); White Plains, Sep-Oct (Brb-Bno); Nyack, Jl, *Zab* (Brb); **LI**: Huntington, *Schott* (Brb); Wyandanch, *Schott* (Brb, Bno); Yaphank, *Eng* (Bno); Fire I. (Ds); Feb-Nov.

## SUBFAMILY RHYPAROCHROMINAE

(Myodochinae)

## MYODOCHA Latreille

- 526 **M. serripes** Oliv. Cranberry L., Jl (Drk); Buffalo, May-Je, Albany, May (EPV-NYS); Ft. Montgomery, Jl (Ds); White Plains, Dec, sifting (Bno); Nyack, Jl, *Zab* (Brb-AM); Scarsdale, Aug (Bno); Van Cort. Pk. (Sf-BM); **SI**, May-Nov (Ds); **LI**: Astoria, *Zab*, Cold Sp. Harb. (Brb); Flushing, Forest Hill (Ols); Rockaway Beach, *Dow*, *Schott* (Brb, Ols); Queens, Flatbush, Wyandanch, *Schott* (Bno); May-Sep.

## HERAEUS Stål

- 528 **H. plebejus** Stål. Lancaster, Sep, Elma, Je, Hamburg, Ap, Aug (EPV); Batavia, Aug, Portageville, Aug (Kngt); White Plains, Ap-Oct (Bno); **SI**, Feb, May-Je, Dec (Ds), taken sifting in Feb (Brb); **LI**: Cold Sp. Harb. (Brb); Wyandanch (div.); Flatbush, *Zab* (Brb-AM); Aqueduct, *Shoe* (Ds); Flushing, North Beach (Ds); Mar-Oct.

## SPHAEROBIUS Uhler

- 531 **S. insignis** Uhl. Indian L., Aug (Brb).

## LIGYROCORIS Stål

- 537 **L. sylvestris** L. (*contractus* Say). Cascade L., Indian L., Aug (Brb); Cranberry L. (Drk); Keene Val., Aug, *Not* (Brb); Phoenicia, Jl (EPV-NYS); top of Mt. Whiteface, Jl, Saranac L., Sep (Ds); Long L. (Ds); L. Placid, Aug (EPV); Speculator, Aug, *Yg* (NYS); Buffalo, Je-Sep (EPV); Salamanca, Jl (EPV); Ithaca, Aug (EPV-CU); L. George, Jl-Aug, *Zab* (Brb-AM); E. Jewett, Aug (Ds); Oliverea, Sep, *Beq* (Ols); White Plains, Je-Aug (Bno); Stamford, Jl (EPV); **LI**: Rockaway, Wyandanch, Oct, *Schott* (Bno).
- 538 **L. diffusus** Uhl. Throughout the State (Brb). Cranberry L., Je-Aug (Drk); Cascade L., Aug (Brb); Keene Val., Aug, *Not* (Brb); L. Tear, Jl, *Not* (Brb); L. Placid, Aug-Sep (EPV); Niagara Falls, Jl, Lancaster, Aug, Buffalo, Je, Elma, Je, Hamburg, Aug-Sep, Conesus L., Aug, Salamanca, Jl-Sep (EPV); Batavia, Jl-Sep (Kngt); Oakfield, Je, *Not* (Brb); Canisteo, Je, *Not* (Brb); L. George, Jl-Aug, *Zab* (Brb-AM); West Pt., Jl (Brb); Carmel, Aug (Brb-AM); Yorktown Hgts., Sep (Ols); **SI**, Je-Sep (Ds); **LI**: Cold Sp. Harb., *Butler* (Huss); Amagansett, *Sf* (Bno); Bellport, *Nic* (Sf-BM); Maspeth, *Schott* (Ols, Brb); Flushing (Ols, Ds); Huntington, *Schott* (Ols); Bay Shore, Rockaway Beach (Ols); Aqueduct, Central Pk., Brooklyn, Yaphank, Montauk, Southold, Orient (Ds); Winfield (Ols); Ap-Sep.
- **L. depictus** Brb. Ithaca, Aug (Brb); White Plains, Je, *Bno* (Brb).

## PERIGENES Distant

- 543 **P. constrictus** Say. Cranberry L., Aug (Drk); Indian L., Aug (Brb); Lewiston, Jl, *Wat* (Brb); Phoenicia, Aug (EPV-NYS); Buffalo, Sep, Hamburg, Aug-Sep, Albion, Aug, Clarence, Sep (EPV); Batavia, Jl-Sep (Kngt); White Plains, Je-Aug (Bno); Van Cort. Pk., Sep (Bno); **SI**, Je (Ds); **LI**: Southold (Ds); Flatbush, Rockaway, *Schott* (Bno); Rockaway, Winfield (Ols); Je-Oct.



## ZERIDONEUS Barber

- 545 **Z. costalis** VanD. Cascade L., Aug (Brb); Indian L., Aug (Brb); Batavia, Aug (Kngt); L. George, Aug, *Zab* (Brb); Ft. Montgomery, Jl (Ds); White Plains, Jl-Oct (Bno); **LI**: Huntington, *Schott* (Ols).

## ORTHAEA Dallas

- 554 **O. basalis** Dall. Indian L., Aug (Brb); L. Placid, Aug, Buffalo, May-Aug, Lancaster, Aug (EPV); Hamburg, Aug (EPV); Scarsdale, Sep (Bno); White Plains, Je-Oct (Bno); Pine L., Sep (Brb); Mosholu, Jl, *Sf* (Brb); NYC, Ap (Brb); **SI**, May (Ols); **LI**: Cold Sp. Harb. (Brb); Mineola, Wyandanch, Melville, Rockaway, Huntington, *Schott*, Flushing, Jamaica (Ols); Mar-Sep.

## PTOCHIOMERA Say

- 557 **P. nodosa** Say. **LI**: Aqueduct, Cold Sp. Harb. (Brb); Jl-Oct.  
 570 **P. ferruginea** Stål (*Carpilis*). Indian L., Aug (Brb); **LI**: Yaphank, Sep (Bno).  
 558 **P. clavigera** Uhl. NY (Uhl); **LI**: Aqueduct, Oct (Brb).

## KOLENETRUS Barber

- K. plenus** Distant (*Rhyparochromus*). Indian L., Aug (Brb).

## CNEMODUS Herrich-Schaeffer

- 566 **C. mavortius** Say. Lancaster, Oct (EPV); NYC (Brb); **SI**, May (Ds); **LI**: Bellport, *Nic* (Sf-BM); Yaphank, Wading R. (Ds); Rockaway Beach, Brookhaven, *Schott* (Ols, Bno); Je-Oct.

## PSEUDOCNEMODUS Barber

- 569 **P. canadensis** Prov. Phoenicia, Aug, Niagara Falls, Aug (EPV); **LI**: Flatbush, *Zab* (Brb-AM); Fire I. (Bno); Yaphank, *Eng*, Wyandanch, Nov, S. Huntington (Bno); Jl-Sep.

## OZOPHORA Uhler

- 571 **O. picturata** Uhl. White Plains, Nov, sifting (Bno); **LI**: Cold Sp. Harb., (Brb); Yaphank, *Eng* (Brb, Bno); Bellport, *Nic* (Sf-BM); Wyandanch, Rockaway, *Schott* (div.); Springfield (Ols); Ap-Aug.

## ANTILLOCORIS Kirkaldy

- 578 **A. pilosulus** Stål. Buffalo, Ap, Gowanda, May, White Plains, Ap (EPV); Greenwood L., May, *Not* (Brb); **SI**, Nov (Ds); **LI**: Wading R., *Schott*, North Beach (Ols); Yaphank, *Eng* (Bno); Mar-Sep. In some cases probably confused with next species (Brb).  
 579 **A. pallidus** Uhl. Should occur all over the State; usually taken in sifting (Brb). Indian L., Aug (Brb); Cranberry L., Aug (Drk); Pine L., Je (Brb); Scarsdale, May (Bno); Tuxedo, May (Brb); Mosholu, Nov (Brb); White Plains, Armonk, Ap-Sep (Bno); **SI**, Feb (Ds); **LI**: Cold Sp. Harb. (Brb); Flushing, Aqueduct (Ols); Wyandanch, sifting (Ds); Ap-Aug.

## PLINTHISUS Fieber

- 584 *P. compactus* Uhl. (*americanus* VanD.). Indian L., Aug (Brb).

## PERITRECHUS Fieber

- 585 *P. fraternus* Uhl. Buffalo, Dec, hibernating, *MCV* (EPV); **SI**, Je, Sep, Nov (Ds); **LI**: Cold Sp. Harb. (Brb); Maspeth, Rockaway Beach (Ols); Long Beach, *Schott* (Ols, Bno); Promised Land, Greenport (Ds); Jan-Aug.
- 586 *P. paludemaris* Brb. **SI**, May (Brb); **LI**: Rosedale, Flatbush, *Schott* (Brb); Cypress Hills (Brb-AM); Bellport, *Nic* (Sf); Rockaway Beach (Bno); Feb-May. A salt-marsh species (Brb).

## STYGNOCORIS Douglas and Scott

- 588 *S. rusticus* Fall. Indian L., Aug (Brb); Cranberry L., Aug (Drk).
- S. pedestris* Fall. Cranberry L., Aug (Drk); Indian L., Aug (Brb); Elka Pk., Catskills, Aug, *Drk* (Brb).

## TRAPEZONOTUS Fieber

- 589 *T. arenarius* L. Indian L., Aug (Brb); top of Mt. Whiteface, *Jl*, *Ds* (Brb).

## SPHRAGISTICUS Stål

- 592 *S. nebulosus* Fall. Buffalo, Sep (EPV); Batavia, *Jl*-Sep (Kngt); **LI**: Brooklyn (Ds); Mineola, *Schott* (Bno); Maspeth (Ols); Wyandanch, *Schott* (Brb); *Jl*-Aug.

## MALEZONOTUS Barber

- *M. fuscus* Brb. **LI**: Fire I. Beach, *Bno*, Huntington, *Schott* (Brb); *Jl*.

## APHANUS Laporte

- 594 *A. umbrosus* Distant. Top of Mt. Whiteface, *Jl*, *Ds* (Brb); Colden (Horv).

## EMBLETHIS Fieber

- 597 *E. vicarius* Horv. White Plains, Sep, Nov (Bno); **LI**: Aqueduct (Brb); Woodhaven, Springfield, *Schott* (Brb); Oct-Nov.

## DRYMUS Fieber

- 598 *D. unus* Say. Cascade L., Indian L., Aug (Brb); N. Evans, Oct (EPV); S. Buffalo, *Fischer* (EPV); Lancaster, Sep (EPV); Gowanda, Aug (EPV); Ithaca, Oct (Kngt); W. Hebron, *Lg* (Brb); Ft. Montgomery, Sep, *Schott* (Brb); White Plains, Mar, Oct, Dec, sifting (Bno, Huss); Mosholu, Nov, sifting (Brb); **LI**: Sea Cliff, *Bks* (Brb); Yaphank (Brb, Bno); Flushing (Ols); Flatbush, *Zab* (Brb); Bellport, *Nic* (Sf-BM); Little Neck, Nov, *Schott* (Bno).
- 599 *D. crassus* VanD. White Plains, Dec, sifting (Bno); W. Hebron, Sep, *Lg*, Inwood, NYC, Sep (Ds).

## EREMOCORIS Fieber

- 600 **E. ferus** Say. Cranberry L., Jl, Sep (Drk); Cascade L., Indian L., Aug (Brb); Wallface Mt., Jl, Keene Val., Je, *Not* (Brb); top of Mt. Whiteface, Jl (Ds); Colden, Jl (EPV); E. Aurora, *Wild* (EPV); Jamestown, Aug (EPV); Canisteo, Je, *Not* (Brb); W. Hebron, Sep, *Lg* (Ds); Ft. Montgomery, Aug, *Schott* (Brb); Suffern (Brb); White Plains, Ap, Sep-Oct, Dec, Carmel, Aug (Bno); **SI**, Ap, Jl (Ds); **LI**: Maspeth, Rockaway Beach (Ols); Brooklyn, *Shoe* (Ols); Long Beach, *Shoe* (Ds); Wyandanch, Wading R. (Ds); Flatbush, Cypress Hills, *Zab* (Brb-AM); Huntington, *Schott* (Bno).

## XESTOCORIS Van Duzee

- 604 **X. nitens** VanD. Indian L., Aug (Brb); Colden, Aug (EPV); Buffalo, Mar, *Fischer*, Hamburg, Ap (EPV); Ithaca, *Bks* (Brb); Tuxedo, May, beneath clumps of dead grass (Brb). Gerhard has collected this species in burrows of field mice near Chicago (Huss).

## CRYPHULA Stål

- 608 **C. parallelogramma** Stål. White Plains, Aug, Oct, *Bno* (Brb); **SI**, Feb, sifting (Ds, Brb); **LI**: Flushing, Forest Pk. (Ols); Little Neck, Rockaway Beach, Dec, *Schott* (Bno); Yaphank (Ds); Mar-May.

## SCOLOPOSTETHUS Fieber

- 610 **S. thomsoni** Reuter. Indian L., Aug (Brb); Buffalo, May-Aug, Hamburg, Je, Chautauqua, May, Gowanda, Aug, Salamanca, Jl (EPV); White Plains, Je, *Bno* (EPV); **LI**: Yaphank (Brb); Wyandanch, *Sf* (Bno); May. This and the next two species are usually taken sifting dead leaves (Brb).
- 611 **S. atlanticus** Horv. N. Elba, *Lg* (Brb); Lancaster, Aug (EPV); E. Jewett, Ap (Ds); White Plains, May-Jl (Bno); Orangeburg, Ap, *Not* (Brb); **SI**, Aug, *Ds* (Brb); **LI**: Flushing, Aqueduct (Ols); Wyandanch, *Ds* (Brb); Mar-May.
- 612 **S. diffidens** Horv. Indian L., Aug, Mosholu, May (Brb); **SI**, Feb, sifting (Brb); **LI**: Wyandanch, *Schott* (Ols, Bno); Jamaica, *Nic* (Bno); Feb.

## FAMILY PYRRHOCORIDAE

## EURYOPHTHALMUS Laporte

- 617 **E. succinctus** L. Hague (Brb-AM); **LI**: Baldwin, Christian Hook (Ds); Rockaway Beach (*Schott*); May-Oct.

## FAMILY PIESMIDAE

Compiled by CARL J. DRAKE

## PIESMA Le Peletier and Serville

- 636 **P. cinerea** (Say). Cranberry L., Jl (Drk); Syracuse, Jl-Sep (Drk); Buffalo and vic., Je-Aug (EPV); Ithaca; Pine L., Je (Bno); White Plains, Mar-Oct (Bno); NYC (Bno); **LI**: Cold Sp. Harb., Aug (Brb). Common on its preferred food plant, lamb's-quarters (*Chenopodium album* L.); hibernating individuals found under bark of sycamore and birch, and among fallen leaves.

FAMILY TINGITIDAE Costa<sup>15</sup>

Compiled by CARL J. DRAKE

## ACALYPTA Westwood

- 637½ **A. lillianis** Bno. Adirondacks, Indian L., Aug (Brb); Corinth; Pine I., Je (Brb); White Plains, May-Jl (Bno); **LI**: Sea Cliff. Food plant, moss; collected by sifting moss and sphagnum.

## CORYTHUCHA Stål

- 638 **C. ciliata** Say. Canastota, Mar, *Faure*; Syracuse, May-Je, Sep, Dec (Drk); Buffalo (EPV); Lancaster, Aug, Colden, Jl (EPV), Hamburg, May, Aug (EPV); Enfield Falls, Jl, *MacG*; Ithaca, Je-Jl, Sep, Oct, *Summers* (Morr); Poughkeepsie, Jl, *Yg* (NYS); White Plains, Feb-Oct (Ols&Bno); **LI**: North Beach, Sep (Plm); Flushing, Sep (Plunk); Wyandanch L., Aug (Ols). Very abundant on sycamore or buttonwood (*Platanus occidentalis* L.); hibernates beneath bark of sycamore and among fallen leaves on the ground.
- 639 **C. arcuata** (Say). Fulton Co, *Alex*; Syracuse, Sep-Oct (Drk); Buffalo and vic., Jl, Sep (EPV); Lime L., Aug (EPV); Machias (EPV); Ithaca, Jl, Dec; Poughkeepsie, May; Scarsdale, Aug (Bno); White Plains, May, Oct (Bno); **LI**: Cold Sp. Harb., Jl (Brb). Breeds on various species of oaks, and occasionally on chestnut, very rarely on maple and apple. Hibernates beneath leaves and in other secluded places on the ground.
- C. arcuata** var. **mali** Gib. Common, and perhaps more abundant than typical form; same distribution and food plants.
- 639½ **C. salicis** O. & D. Cranberry L., Wanakena, May-Sep (Drk); Lime L., Aug (EPV). Willow.
- **C. ulmi** O. & D. Nassau, Oct.
- 640 **C. pergandei** Heid. Wanakena, Cranberry L., May-Sep (Drk); Nassau, Oct; Syracuse, May-Je, Sep. (Drk); Jamestown, Jl; Ithaca, Je-Jl, *Summers*; Karner, May, Oct; Voorheesville, all stages very abundant on hoary alder, *Leon* (Drk); Saugerties, Jl (Brb); White Plains, May-Je (Bno); Van Cort. Pk., Aug (EPV); **SI**, Feb, Je (Brb & Ds); **LI**: Wading R., May (Brb); Bay Shore (Ols); Flushing, Sep (NYS). Common on alder (*Alnus incana* (L.) Moench and *Alnus rugosa* (Du Roi) Spreng.), and rarely on plum (*Prunus americana* Marsh.); sometimes taken at light; adults found on ground during winter by sifting fallen leaves.
- 641½ **C. pruni** O. & D. Colden, Jl (EPV); Salamanca, Aug (EPV). Wild black cherry (*Prunus serotina* Ehrh.).
- 645 **C. marmorata** (Uhl.) (*decens* VanD., in part). Syracuse, Aug-Sep (Drk); Rochester, Jl; Lancaster, Sep (EPV); Buffalo, Jl-Sep (EPV); Ithaca, Jl-Aug, *Summers*; Albany, Je-Sep (Fitch, Felt); Karner, Je; Coeymans, Je-Aug; White Plains (as *gossypii* Bno.); West Pt., Jl (Brb); **LI**: Cold Sp. Harb., Aug (Brb); Bay Shore, Hempstead, Jl (Ols); Yaphank, Jl, Flushing, Je (Ols). Occurs in large numbers on aster, goldenrod, *Ambrosia trifida*, and other Compositae.

<sup>15</sup> In addition to the species listed herein, *Corythucha pallida* O. & D., *C. coryli* O. & D., *C. celtis* O. & D., *C. bulbosa* O. & D., *Gargaphia solani* Heid., *Gelchossa oblonga* (Say), *Teleonima nigrina* Champ., *Atheas insignis* Heid., *Leptotypha costata* Parsh., *Physatocheila major* O. & D., and *Dicthyonota tricornis* var. *americana* Parsh., probably occur in New York State.

- 649 **C. juglandis** (Fitch). Speculator, Je, *Yg* (NYS); Delaware L., May, *Cy*; Mountain L., Ap 26, *Cy*; Hague, Aug, *Leon* (NYS); Wolcott, May (Leon); Syracuse, Sep-Oct (Drk); Niagara Falls, Aug, Lawtons, Sep; Colden, Jl, Gowanda, Aug (EPV); Ithaca, Je-Oct; Albany, Je-Aug, *Leon*; Phoenicia, Aug (EPV); Northfield, Ap 23 (NYS); Millerton, May (Leon); Amity, Je (NYS); Thomson, May (Leon); Pine L., Dec (Brb); White Plains (Bno&Ols); **LI**: Yaphank, Sep (Bno&Eng). On walnut and basswood.
- 649½ **C. mollicula** O. & D. Wanakena, Conifer, May-Sep (Drk); Lime L., Jamestown, Aug (EPV); Karner, Aug (NYS). On willow.
- **C. pallipes** Parsh. (*C. betulae* Drk., *C. cyrta* Parsh., *C. juglandis* VanD. not Fitch; *juglandis* and *pallipes* were confused by Fitch in his original description, also by various authors since then). Chapel Pond, Je, *Leon*; Delaware Lodge, May, *Cy*; Big Moose, Aug (NYS); North Elba, Je, *Leon*; L. Placid, Aug (EPV); Cranberry L., May-Oct (Drk); Hamburg, Je (EPV). White birch, beech, ironwood, and occasionally mountain ash and hard and soft maple; adults hibernate among fallen leaves.
- **C. heidmanni** Drk. Syracuse, Sep-Oct (Drk); Ithaca, Aug, *Summers*; White Plains, Sep (Bno). Elm (*Ulmus americana* and *U. fulva*).
- **C. bellula** Gib. Wanakena, Barber Pt., Cranberry L., Je-Aug (Drk); Ithaca, May-Sep (Wellhouse); Buffalo, Sep (EPV). *Crataegus neofluvialis*, *C. pruinosa*, *C. punctata*, etc., *Alnus incana*, *Ribes oxycanthoides*; adults found in crevices of bark and among fallen leaves during winter months.
- **C. cydoniae** Fitch (639¼ *C. crataegi* O. & D., and spp. of various other authors). Syracuse, Sep-Oct (Drk); Ithaca, Je-Jl, *Summers*; Albany, Je-Oct; Nassau, May (NYS); **LI**: Yaphank (Bno). Hawthorn (*Crataegus* spp.), buttonbush (*Cephalanthus occidentalis*), Juneberry (*Amelanchier*); hibernates on ground among leaves.
- **C. elegans** Drk. Keene Val., Aug, *Not*; Adirondack Lodge, Je, *Leon*; Cranberry L., "The Plains," Conifer, May-Oct (Drk). Willow, poplar (*Populus tremuloides* Michx. and *P. grandidentata* Michx.); adults found among fallen leaves on ground during winter.
- 649½ **C. aesculi** O. & D. Rochester, Aug; Salamanca, Sep (EPV). Horsechestnut (*Aesculus hippocastanum* L.); also feeds on buckeye (*A. glabra* Willd.).
- 649½ **C. associata** O. & D. Colden, Jl (EPV); **LI**: Cold Sp. Harb., Aug (Brb); Yaphank, May, Jl (Brb); Riverhead, Ap 11 (NYS). Wild black cherry (*Prunus serotina* Ehrh.).
- **C. cyrta** Parsh. Big Moose, Aug (NYS); L. Placid, Aug (EPV); Chapel Pond, Je, *Leon* (NYS); N. Elba, Jl, *Leon* (NYS); Delaware L., May, *Cy* (NYS); Voorheesville, Jl, *Leon* (NYS).

## GALEATUS Curtis

- 651 **G. peckhami** (Ashm.). Cattaraugus Co (Kngt); Barber Pt., Cranberry L., Jl-Sep (O&D). Aster (*Aster macrophyllus* L.) and boneset (*Eupatorium* sp.). Locally distributed, but occurs in large numbers on knolls in semi-shady, dry situations.

## STEPHANITIS Stål

- 652 **S. pyrioides** Scott. **LI**: Lynbrook (LCGriffith). Common laurel (*Kalmia latifolia*) and *Rhododendron* sp.



## GARGAPHIA Stål

- 654 *G. tiliae* Walsh. Keene Val. (Not); Syracuse, Sep-Oct (Drk); Lancaster, Sep, Hamburg, Jl, Gowanda, Aug, Buffalo and vic., Jl (EPV); Ithaca, Jl, *Summers* (NYS); Trenton Falls, Je (NYS); White Plains, May (Bno).  
 657 *G. angulata* Heid. Karner, May (NYS); Albany, Aug; Montgomery, Aug (Heid). *Ceanothus americanus* and *Solanum* sp.  
 — *G. amorphae* Walsh. "NY" (EPV, 1917, as var. of *G. tiliae*).

## GELCHOSSA Kirkaldy

- *G. heidemanni* O. & D. LI: Wading R., May, Yaphank, Ap (Brb); Orient, May (NYS). *Baptisia tinctoria*.

## PHYSATOCHEILA Fieber

- 665 *P. plexa* Say. White Plains, Je (Bno); LI: Yaphank, Sep (Bno).  
 — *P. plexa* var. *variegata* Parsh. "NY" (EPV, 1917, as a distinct species, 665½); Northampton, Je, Yg (NYS); Hamburg, Je, Gowanda, Aug (EPV); Salamanca, Jl (EPV); Suffern, May. Food plant unknown, but specimens have been collected on hickory.  
 665½ *P. brevirostris* O. & D. "NY" (EPV, 1917). Food plant unknown.

## CORYTHAICA Stål

- 658½ *C. bellula* Bno. White Plains, Je-Jl (Bno&Ols).

## LEPTOYPHA Stål

- 666 *L. mutica* (Say). Keene Val., Je (Not); Hamburg, Jl, Gowanda, Aug (EPV); Millerton, May, Cy (NYS). Fringe tree (*Chionanthus virginica* L.) and ash (*Fraxinus* spp.). Sometimes, rarely, taken at light.

## LEPTOBYRSA Stål

- *L. rhododendri* Horvath. RHODODENDRON LACE BUG. Rochester (Felt); Ithaca, Je (Sling); West Pt., Jl (Brb); Port Jervis, Ap (Sling); Westchester Co, Sep (Bno); White Plains, Je-Sep (Bno); NYC (Bno); LI: Sea Cliff (Brb); Brooklyn, Jl (Griffith&Sanford). Rhododendron and laurel (*Kalmia latifolia*).

## MELANORHOPALA Stål

- 667 *M. clavata* (Stål). West Pt., Jl (Brb); Cold Sp. Harb., Jl-Aug (Brb, Parsh); White Plains, Je-Aug (Bno). Swept from rank weeds and grasses; food plant unknown.

## HESPEROTINGIS Parshley

- *H. antennata* Parsh. SI: Huntington, Jl (Schott); LI: Fire I. (Bno). Food plant unknown.

## ALVEOTINGIS Osborn and Drake

- 670½ **A. grossocerata** O. & D. White Plains, Aug (Bno); **LI**: Smith's Pt. (Bno). Food plant unknown; Bueno captured a specimen on a thistle.

## FAMILY ENICOCEPHALIDAE

## SYSTELLODERUS Blanchard

- 684 **S. biceps** Say. Potter Swamp, Je, *Fbs* (Joh); Ithaca, Jl-Aug (Joh); Inter-laken, Jl, Cy (Joh, MacG-CU).

## FAMILY PHYMATIDAE

## PHYMATA Latreille

- 685 **P. vicina** Handl. Pine I., Je (Brb); Ramapo, May (Ds); White Plains, Aug, *Farley* (Bno); Van Cort. Pk., Jl (Brb-AM); Bronxville, May (Woodr).
- 689 **P. erosa** L. Batavia, Jl-Sep (Kngt); Ithaca, *Barnard* (CU); Coeymans, *SmEB* (Lint); W. Hebron, Aug (Bno); Ft. Montgomery, Aug (Schott); Scarsdale, Sep, W. Nyack, Aug (Bno); **SI**, Jl-Oct (Ds); **LI**: Brooklyn, Pinelawn, Yaphank, Wading R., Aqueduct, Flushing, Greenport, Riverhead (Ds); North Beach, *Schott* (Bno); Mar-Sep. Subspecies are not indicated in this series (Brb).
- 689a **P. erosa** subsp. *fasciata* Gray. Keene Val., Aug, *Not*, L. George, Aug, *Zab*, Nyack, Aug, *Zab* (Brb-AM); **LI**: Flatbush, *Zab* (Brb-AM); Cold Sp. Harb. (Brb); Oyster Bay (Bno); Jl-Aug.
- 689b **P. erosa** subsp. *wolfii* Stål. Keene Val., Aug, *Not* (Brb); Buffalo, Jl-Oct, Hamburg, Aug (EPV); Ithaca, Jl-Aug (EPV-CU); Albany, *Coleman* (Lint-NYS); Pine I., Sep (Brb); **LI**: Cold Sp. Harb., Aug (Brb).

## FAMILY REDUVIIDAE

SUBFAMILY PLOIARIINAE<sup>16</sup>*(Emesinae)*

## EMPICORIS Wolff

*(Ploiariola* Reuter)

- 697 **E. errabundus** Say (*P. tuberculata* Bks.). White Plains, Aug, Bno (McAtee & Mall); **LI**: Cold Sp. Harb., *Mciner*, Sea Cliff, *Bks* (McAtee & Mall); Jl-Aug.

## EMESAYA McAtee and Malloch

*(Emesa* auct. not Laporte)

- 709 **E. brevipennis** Say (*longipes* DeG.). Aurora, Jl (Brb-AM); Ithaca, Aug (CU); Coeymans, *SmEB* (Lint); Nyack, Sep (Brb-AM); W. Nyack, Jl (Ols); White Plains, Aug-Sep (Bno); Scarsdale, Sep. (Bno); **LI**: Cold Sp. Harb. (Brb); Yaphank, Wading R. (Ds); Pinelawn, *Eng* (Sf-BM); Central Pk., *Schott* (Bno); Aug-Oct.

<sup>16</sup> The arrangement of genera and species in this subfamily, and the nomenclature, are those of McAtee and Malloch's "Revision" in Proc. U. S. Nat. Mus., vol. 67, p. 1-153, 1925.

## METAPTERUS Costa

(Barce Stål)

- 714 *M. uhleri* Bks. Ithaca, Jl-Aug, White Plains, Oct, *Bno* (McAtee&Mall-CU); Tuxedo, May (Brb); **LI**: Sea Cliff, *Bks*, Central Pk., *Eng* (McAtee&Mall-CU); Huntington (Schott); Ap.
- *M. neglectus* McAtee & Mall. White Plains, Mar-Apr, Aug, *Bno* (McAtee&Mall); **SI**, Mar, *Bno* (McAtee&Mall).
- 713 *M. annulipes* Stål. Indian L., Aug, *Brb* (McAtee&Mall); Ithaca, *Alex* (EPV); White Plains, Mar, Oct, *Bno* (McAtee&Mall); **SI** (Ds); **LI**: Cold Sp. Harb., *Parsh*, Cypress Hills, *Martin* (McAtee&Mall); Sea Cliff (Bks); Huntington (Schott); May-Aug.
- 715 *M. fraternus* Say. White Plains, Aug-Nov, *Bno* (McAtee&Mall); **LI**: Cold Sp. Harb., *Brb* (McAtee&Mall); Flatbush (Schott); Aqueduct (Brb); Jl-Nov.

## SUBFAMILY SAICINAE

## ONCEROTRACHELUS Stål

- 717 *O. acuminatus* Say. White Plains, Sep (Bno, Brb); Orangeburg, Ap, *Not* (Brb).

## SUBFAMILY STENOPODINAE

## PYGOLAMPIS Germar

- 723 *P. sericea* Stål. Ithaca, Aug (EPV-CU); **LI**: Wyandanch, *Schott*, Cedarhurst, *Schott* (Brb); Rockaway Beach, *Ds* (Brb).
- 724 *P. pectoralis* Say. **LI**: Yaphank (Brb); Huntington, Wyandanch, Little Neck, *Schott* (Ols, Brb); Rockaway Beach (*div.*); Long Beach, *Eng* (Sf-BM).

## STENOPODA Laporte

- 727 *S. cinerea* Lap. (*culciformis* Fab.). White Plains, Jl (Bno); Bronx Pk., *Wat* (Brb); **SI**, Je-Jl (Ds); **LI**: Rockaway Beach (Brb); Huntington, Wading R., Melville, Wyandanch, Bay Shore, *Schott* (Ols, Bno); Coram, Yaphank (Ds); Wading R., Fire I. (Schott); Je-Nov.

## SUBFAMILY REDUVIINAE

## REDUVIUS Fabricius

- 733 *R. personatus* L. THE KISSING BUG. Mt. Whiteface, Jl (Ds); Cranberry L., Jl (Drk, Brb); Olcott, Aug (Kngt); Buffalo, Je (EPV) Lewiston, Jl, *Wat* (Brb); Batavia, Je-Jl (Kngt); Ithaca, Je-Jl (MacG-CU); Albany, Jl, *Lint* (EPV); W. Hebron, Aug, *Lg* (Ds); Catskills, Jl, *Shoe* (Ds); Nyack, *Zab* (Brb-AM); Katonah, Je (Brb-AM); White Plains, Jl (Bno); **SI**, May-Jl (Ds); **LI**: Bayside (Ds); Flatbush, Mar, Je (Schott).

## SUBFAMILY PIRATINAE

## MELANOLESTES Stål

- 745 *M. picipes* H-S. Ithaca, Je (EPV-CU); Nyack, *Zab* (Brb-AM); West Pt., Ap, *Robn* (Ds); White Plains, Ap, Oct (Bno); Van Cort. Pk., May, *Wat* (Brb); **SI**, Mar-Apr, Sep, Nov (Ds); **LI**: Cold Sp. Harb. (Brb); Cypress Hills, *Zab* (Brb); Pinelawn, *Eng* (Bno); Rockaway Beach (Ols, Schott); Huntington, Wyandanch (Schott); Ap-Sep.

- 746 **M. picipes** var. **abdominalis** H-S. White Plains, Ap-May, Aug-Sep (Bno); Nyack; *Zab* (Brb-AM); Ramapo, Sep (Ds); **SI**, Mar-Apr, Nov, Dec (Ds); **LI**: Cold Sp. Harb. (Brb); Wyandanch, *Schott*, Queens (Ols); Rockaway Beach (Ds, *Schott*); Melville (*Schott*); May-Oct.

## SUBFAMILY ECTRICHODIINAE

## RHIGINIA Stål

- 751 **R. cruciata** Say. **LI**: Rockaway Beach, May, Oct, *Ds*, *Schott* (Brb).

## SUBFAMILY APIOMERINAE

## APIOMERUS Laporte

- 764 **A. crassipes** Fab. **LI**: Half Way Hollow Hills, Wading R. (Ds); Yaphank, *Eng* (Ds, Sf); Rockaway Beach (Brb); May-Jl.

## SUBFAMILY HARPACTORINAE

## ZELUS Fabricius

- 771 **Z. exsanguis** Stål. Ithaca, May-Aug (EPV-CU); Buffalo, May-Je, Hamburg, Je-Jl, Boston, Aug, Colden, Jl (EPV); Portage, May, Geneva (EPV); Genesee Co, Je (Ds); Batavia, May-Jl (Kngt); Portageville, May, Aug (Kngt); Potter Swamp, Je (Ds); Ithaca, May-Aug (Ds, EPV-CU); E. Jewett, Aug (Ds); West Pt., Je (Ds); Ft. Montgomery, May (Brb); White Plains, Mar, Dec, sifting (Bno); Scarsdale, May (Bno); **SI**, Je-Jl (Ds); **LI**: Yaphank; Wading R., *Ols* (Brb); Huntington, Yaphank (*Schott*); Bay Shore (Ols); Massapequa, Wyandanch (Ds); Southold, Amagansett, Orient, Shelter I. (Ds); Je-Sep.
- 774 **Z. socius** Uhl. Ithaca, Je-Jl (EPV); Highland Falls, Je, *Schott* (Ols); White Plains, Jl (Bno).
- 775 **Z. audax** Bks. Gowanda, Aug, Ithaca, Jl (EPV); L. George, Aug, *Zab* (Brb-AM); Tuxedo, May, *Nad* (Brb); **LI**: Sea Cliff (Bks).

## PSELLIOPUS Bergroth

- 779 **P. cinctus** Fab. Nyack, May, *Schott*, Pine I., Sep (Brb); **SI**, Sep (Ds); **LI**: Wyandanch, Jl, Pinelawn, Calverton, Massapequa, Sep, Yaphank, May (Ds); Central Pk., Aug (Ols); Hempstead, Ap (*Eng*-BM).

## FITCHIA Stål

- 789 **F. aptera** Stål. Hillburn, Dec (*Schott*); White Plains, Ap, Je (Bno); **SI**, Nov, sifting in salt meadow, (Brb); **LI**: Coney I., Nov (*Schott*); Long Beach, Mar, May-Je, *Eng* (Sf-BM); Yaphank, Jl (Ols, Ds); Flushing, Jl, Wading R., May, Rockaway Beach, May (Ols).

## ROCCONOTA Stål

- 791 **R. annulicornis** Stål. Van Cort. Pk., *Wat* (Brb); **LI**: Yaphank, Sep, *Eng* (Bno).

## ARILUS Burmeister

- 796 **A. cristatus** L. THE WHEEL BUG. Buffalo, Sep, *Pohlman* (EPV); **SI**, Sep-Oct (Ds); **LI**: Rockaway Beach, *Eng* (Sf-BM); Wyandanch (Schott, Ds); Huntington (Schott).

## ACHOLLA Stål

- 797 **A. multispinosa** DeG. Clifton Sps., Aug (EPV-CU); Buffalo, Jl-Oct, Lancaster, Jl, Ithaca, Jl-Oct (EPV); Batavia, Aug-Sep (Kngt); Malcolm, May, *Little* (Lint-NYS); White Plains, Ap (Bno); Nyack, *Zab* (Brb-AM); **SI**, Aug (EPV); **LI**: Flatbush, *Zab* (Brb-AM); Wyandanch, Yaphank (Ds); Huntington, *Schott* (Ols); Flushing (Ols); Hempstead (Brb); Aug-Sep.

## SINEA Amyot and Serville

- 800 **S. diadema** Fab. Cranberry L. (Drk); Keene Val., Aug, *Not* (Brb); L. Placid, Aug-Sep, *Eng* (EPV, Bno); Saranac L., Sep, *Lg* (Ds); Cascade L., Aug (Brb); Buffalo, Jl-Sep (EPV-CU); Colden, Aug, Hamburg, Lancaster, Aug (EPV); Otto, *Comst* (Summers-CU); Ithaca, Jl-Aug (EPV-CU); L. George, Aug, *Zab* (Brb-AM); W. Hebron, Aug, *Lg* (Ds); E. Jewett, Aug, Ft. Montgomery, Jl (Ds); White Plains, Aug-Oct (Bno); Kings Bridge, Sep (Brb); **SI**, Jl-Aug (Ds); **LI**: Maspeth (Schott, Ols); Yaphank, *Eng* (Sf-BM); Cold Sp. Harb., *Butler* (Huss); Pinelawn, Bay Shore (Ols); Wading R. (Ols, Ds); Aqueduct, Half Way Hollow Hills, Flushing, Southold, Amagansett, Shelter I. (Ds); Wyandanch, *Schott* (Bno); May-Nov.
- 807 **S. spinipes** H-S. Ithaca, Aug (EPV); **LI**: Maspeth (Schott); Shelter I., *Plm* (Brb); Yaphank (Brb, Ds); Southold, Amagansett (Ds); Aug-Sep.

FAMILY HEBRIDAE<sup>17</sup>

## (Naeogidae)

Compiled by J. R. DE LA TORRE-BUENO

## HEBRUS Curtis

- 810 **H. burmeisteri** L. & S. Lancaster, Jl 12, 1899 (*EPV*); White Plains, Ap-Jl (Bno); **SI**, May (Ols); **LI**: Yaphank, Sep, *Bno&Eng* (Bno).

## MERRAGATA White

- 813½ **M. foveata** Drk. White Plains, May 12, Aug 12, 16, 30 (Bno); **SI**, May 7, 16 (Bno); **LI**: Cold Sp. Harb., Jl 29, in enormous numbers in and among duckweed (Bno&Parsh); Yaphank, Jl 2, Sep 25 (Bno).
- 813½ **M. brunnea** Drk. White Plains, May-Aug (Bno).

<sup>17</sup> According to the footnote on page 272 in Van Duzee's catalog, this family may more properly follow the Veliidae.



## FAMILY MESOVELIIDAE

Compiled by J. R. DE LA TORRE-BUENO

## MESOVELIA Mulsant and Rey

- 814 **M. bisignata** Uhl. Cranberry L. (O&D); Ithaca, Jl-Aug (CU); Squaw L., Niagara R., Sep (EPV); Buffalo, Sep (EPV); Carmel, Aug (Bno); White Plains, common and abundant from late spring to fall (Bno); Kensico L., May (Bno); Van Cort. Pk., Aug-Sep (Bno); **SI**, Aug (EPV, Bno); **LI**: Flushing, Jl (Ols); Yaphank, Jl-Sep (Bno, Ols).

## FAMILY NABIDAE

Compiled by J. R. DE LA TORRE-BUENO

## SUBFAMILY PROSTEMMINAE

## PAGASA Stål

- 816 **P. fusca** Stein. Cascade L., Aug (Brb); Cranberry L. (Drk); Hamburg, Sep (EPV); Lancaster, Jl, EPV (Harris); Stamford, Aug (EPV); White Plains, Jl-Oct (Bno, Ols); NYC, Nov (Brb); **LI**: Cold Sp. Harb. (Brb); Rockaway Beach (Ols); Flatbush, Zab (Brb-AM).

## NABIS Latreille

*(Reduviolus Kirby)*

- 818 **N. subcoleopratus** Kby. Spread all over the State (Brb). Cascade, Aug (Brb); Cranberry (Drk); Axton, Je, Wilmington, Jl (Ds); N. Elba, Oct (Ds); Rochester, Jl, *Wendt* (Ols); Colden, Jl (EPV-NYS); Buffalo, Jl-Sep (EPV); Clarence, Sep (Harris); Batavia, Je-Aug (Kngt); Gowanda, Aug, Otto, Jl (EPV); Ithaca, Jl-Aug (EPV-CU); E. Jewett, Aug (Ds); W. Hebron, Aug-Sep, *M&H*, *Lg* (Ds, EPV-CU); Greene Co, Aug (Harris); Saugerties, Aug (Brb); Allaben, Aug, *Pears* (Ols); Callicoon, Jl (Ds); DeBruce, Aug (Brb-AM); Nyack, *Zab* (Brb-AM); Ramapo, Jl (Ds); Pine L., Je (Sf-BM); White Plains, May-Aug (Bno); **SI**, Sep (Ds); **LI**, *Eng* (Sf-BM).
- 820 **N. sordidus** Reut. L. Placid, Sep, *Eng* (Bno); Oneida L., Aug, *Drk* (Harris); West Pt., Jl, Mosholu, Nov, Suffern, Ap, Grand View, Nyack, Je (Brb); White Plains, Oct, sifting (Huss); **SI**, Aug, *Ds* (Heid); **LI**: Cold Sp. Harb. (Brb); Rockaway Beach, *Schott* (Brb); Hempstead (Eng); Central Pk., *Eng* (Bno).
- 823 **N. annulatus** Reut. N. Elba, Oct (Ds); Lancaster, Aug, Buffalo, Aug, EPV (Harris); Batavia, Jl-Aug, *Kngt*, Ithaca, Aug (Harris); Saugerties, Jl (Brb); **SI**, Aug (Ds); **LI**: Cold Sp. Harb. (Brb); Amagansett, *Sf* (Bno); Queens, *Sf* (Bno); Flatbush, Aug-Sep, *Zab* (Brb-AM); Aug-Sep.
- 825 **N. propinquus** Reut. Cranberry L., Jl, *OsbornH* (Harr); L. Placid, Sep, Wilmington Notch, Sep (EPV); Grand I., Sep (EPV); Buffalo, Jl (EPV).
- 826 **N. limbatus** Dahlb. Cranberry L., Jl-Sep, *OsbornH* (Harr, Drk); Cascade L., Aug (Brb); L. Placid, Aug (EPV).

- 829 **N. ferus** L. Throughout the State (Brb). L. Placid, Aug (EPV); Cranberry L., Jl-Sep (Drk); Cascade L., Aug (Brb); Buffalo, May-Oct, Hamburg, May-Jl (EPV); Batavia, Je-Sep, *Kngt* (Harr); Colden, Jl, Lancaster, May, Aug, Oct (EPV); Otto, Jl (MacG-CU); Ithaca, Mar, May, Oct, Coy Glen, May (Morr); McLean, Ap, *Kngt* (Morr); W. Hebron, Aug, *Lg* (Ds); Saugerties, Aug, Pine I., Sep (Brb); Ft. Montgomery, Jl (Ds); Crugers, Oct (Brb-AM); **LI**, Je-Nov (Ds); **LI**: Long Beach, Central Pk., *Eng* (Sf-BM); Yaphank, *Eng* (Ds, Sf-BM); Brooklyn, Mineola, *Schott* (Kngt, Bno); Cold Sp. Harb., *Butler* (Huss, Brb); Flatbush, *Zab* (Brb); Aqueduct (Brb, Ds); Ap-Oct.
- 830 **N. roseipennis** Reut. All over the State (Brb). Cranberry L., Jl-Sep (Drk); Cascade L., Aug (Brb); L. Placid, Sep (EPV); Buffalo, May-Sep, Hamburg, Ap-Jl, Gowanda, Aug (EPV); Lancaster, May-Je, Aug, Portage, May, *EPV* (Harr); Grand I., Sep, Concord, May (Harr); Ithaca, Je-Aug (Summers-CU); Saugerties, Aug (Brb); White Plains, Dec, sifting (Bno); Armonk, Je (Bno); Kings Bridge, Sep (Brb); **LI**, Je-Jl, *Ds* (Heid); **LI**: Huntington, Nov, *Schott* (Brb); Flatbush, Jl-Oct, *Zab* (Brb-AM); Cold Sp. Harb., Jl-Aug (Huss, Brb, etc.); Jl-Oct.
- 831 **N. rufusculus** Reut. Throughout the State (Brb). Cascade L., Aug (Brb); Cranberry L., Je-Sep (Drk); L. Placid, Aug-Sep (EPV); Madison Barracks, Grand I., Sep (Kngt); Rochester, Aug (Summers); Colden, Jl-Aug, Buffalo, May-Sep, Hamburg, Jl, Gowanda, Aug, Salamanca, Jl (EPV); Portage, May, Lancaster, Sep (Harr); Lime L., Aug (Brb); Pine I., Oct (Brb); Tuxedo, May (Brb); White Plains, Dec, sifting (Bno); **LI**: Flatbush, *Zab* (AM); Rosedale, *Schott* (Brb-AM).
- 832 **N. inscriptus** Kby. Axton, Je, *M&H* (EPV-CU); Buffalo, Aug, Hamburg, May, Lancaster, Aug (EPV).

## METATROPIPHORUS Reuter

- 834 **M. belfragii** Reut. Saugerties, Jl (Brb); **LI**: Yaphank, Jl (Ds). Rare.

## CARTHASIS Champion

- 835 **C. decoratus** Uhl. White Plains, May (Bno); **LI**: Massapequa, Ap, *Ols* (Bno). Rare.

## FAMILY CIMICIDAE

## CIMEX Linnaeus

- 836 **C. lectularius** L. THE BEDBUG. Generally distributed throughout the State (Brb).
- 837 **C. pilosellus** Horv. Lewis Co (Horv-US). Host, *Vesperugo noctivagus*.

## OECIACUS Stål

- 838 **O. vicarius** Horv. **LI**: Cold Sp. Harb., Jl-Aug, *Butler* (Huss), masses of eggs, hundreds of nymphs in first and second stages, and one or two adults, in a chimney swift's nest (Bno).

## FAMILY ANTHOCORIDAE

## SUBFAMILY LYCTOCORINAE

## LYCTOCORIS Hahn

- 840 *L. campestris* Fab. Lancaster (EPV); Batavia, Aug, *Kngt* (Bno); Ithaca, Sep (Morr); **LI**: Wyandanch, Je, *Schott* (Bno).  
 843 *L. stalii* Reut. Hamburg, Aug (EPV); Lancaster, Jan, *Palmer* (EPV); Ithaca, J1 (EPV).

## LASIOCHILUS Reuter

- 845 *L. fuscus* Reut. Hamburg, Oct (EPV).

## XYLOCORIS Dufour

- 846 *X. galactinus* Fieb. L. Placid, Sep (EPV).  
 847 *X. sordidus* Reut. White Plains, Aug-Sep, Hartsdale, May (Bno); **SI**, May, *Eng* (Bno); **LI**: Wyandanch, Montauk, *Ds* (Ols); Jamaica, *Nic* (Bno-BM).  
 847a *X. sordidus* var. *binotatus* Reut. Salamanca, J1 (EPV).  
 851 *X. cursitans* Fall. Buffalo, Oct, Hamburg, Je-Oct, Colden, May, Gowanda, Aug (EPV); **SI**, Ap (Ds).

## ASTHENIDEA Reuter

- 852 *A. temnostethoides* Reut. Cranberry L., Aug-Sep (Drk).

## SUBFAMILY ANTHOCORINAE

## ANTHOCORIS Fallén

- 860 *A. borealis* Dall. Cranberry L., J1 (Drk); Fulton Co, *Alex* (EPV); Lancaster, Stamford, Aug (EPV); Ft. Montgomery, J1, *Schott* (Brb); Armonk, W. Nyack, Aug (Bno).  
 861 *A. musculus* Say. Keene Val., Sep, *Eng* (Bno); Axton, Je, *M&H* (EPV-CU); L. Placid, Aug, Buffalo, Lime L., Aug (EPV); Otto, J1 (Uhl).

## TETRAPHLEPS Fieber

- T. americana* Parsh. Top of Mt. Whiteface, J1, *Ds* (Brb).  
*T. osborni* Drk. Cranberry L., J1-Sep (Drk).  
*T. uniformis* Parsh. Cranberry L. (Drk).

## MACROTRACHELIELLA Champion

- M. nigra* Parsh. **SI**, Aug, *Ds* (Brb).

## ORIUS Wolff

(*Triphleps* Fieber)

- 864 *O. insidiosus* Say. Cascade L., Aug (Brb); Cranberry L. (Drk); Keene Val., Aug, *Not* (Brb); Axton, Je (M&H); Mt. Whiteface, Aug, Buffalo, Je-Sep, Honeoye Falls, Rochester Jct., Lancaster, J1 (EPV);

Batavia, Je-Sep (Kngt); Colden, Jl (EPV); Jamestown, Aug, Ithaca, Je (EPV); White Plains, May-Sep, Scarsdale, Aug, Rye, Aug (Bno); SI, Oct-Nov, Ds (Heid); LI: Sea Cliff, Je, Atkinson (EPV-CU); Little Neck, Wyandanch, Schott (Brb); Cold Sp. Harb. (Brb); Half Way Hollow Hills (Ds); Amagansett (Sf-BM); Flatbush, Eng (Bno).

- 865 *O. insidiosus* var. *tricolor* White. Aurora, Jl (Brb-AM); Ithaca, Jl-Aug (EPV-CU).

#### SUBFAMILY DUFOURIELLINAE

##### DUFOURIELLUS Kirkaldy

- 871 *D. ater* Duf. Hamburg, Oct, Buffalo, Jl (EPV).

#### FAMILY MIRIDAE

Compiled by HARRY H. KNIGHT

#### SUBFAMILY PHYLINAE

##### CAMPYLOMMA Reuter

- 1267 *C. verbasci* (Meyer). Batavia, Je-Aug (Kngt); Hilton, Je (Kngt); Buffalo, Je (EPV); E. Aurora, Aug (EPV); Hamburg, Je-Jl (EPV); Hamburg, Je-Jl (EPV); Nassau, Je (EPV); White Plains, Jl, Bno (Kngt); LI: Huntington, Jl, Schott (Kngt). *Verbascum* spp., potato, and occasionally apple; is sometimes attracted to colonies of aphids, where it feeds on honeydew.

##### CHLAMYDATUS Curtis

- 1260 *C. associatus* (Uhl). Batavia, Je-Sep (Kngt); Buffalo, Je-Sep (EPV); Honeoye Falls, Je (Kngt); McLean, Jl (Kngt); White Plains, Sep, Bno (Kngt); Mosholu, Bno (Heid). Ragweed (*Ambrosia* spp.).
- 1259 *C. suavis* (Reut.). SI, Jl, Ds (Kngt).
- 1258 *C. pulicarius* (Fall.). L. Placid, Aug (EPV); Cranberry L., Je-Jl, Wana-keno, Jl-Aug, Drk (Kngt); Four Mile, Jl (Kngt).

##### MICROPHYLELLUS Reuter

- M. elongatus* Kngt. Batavia, Je-Jl (Kngt), type locality. *Acer saccharum*.
- M. longirostris* Kngt. Ithaca, Jl (Kngt), type locality; White Plains, Jl, Bno (Kngt). Hazelnut (*Corylus americana*).
- M. maculipennis* Kngt. Batavia, Je (Kngt); Conesus L., Je (Kngt). *Quercus alba*.
- 1225 *M. modestus* Reut. Batavia, Je-Jl (Kngt); Hamburg, Jl (EPV); Gowanda, Je (EPV); Wyoming, Je (Kngt); Conesus L., Jl (Kngt); Ithaca, Je (Kngt); Freeville, Jl (Kngt-CU); McLean, Jl (Kngt); Grand View, Je, Brb (Kngt). Elm (*Ulmus*) and *Quercus alba*; observed to be predacious on eggs of the elm leaf-beetle (*Galerucella luteola*) at Ithaca, Je, 1911.
- M. nigricornis* Kngt. Batavia, Je (Kngt); Four Mile, Jl (Kngt); Ithaca, Jl (Kngt), type locality. *Aster macrophyllus*.
- M. tsugae* Kngt. Ithaca, Jl (Kngt); McLean Bogs, Jl (Kngt), type locality; Taughannock, Jl (Kngt). Hemlock (*Tsuga canadensis*).

## PLAGIOGNATHUS Fieber

- 1237 *P. albatus* VanD. Batavia, Jl (*Kngt*); Hamburg, Jl (*EPV*), type locality; Gowanda, Aug (*EPV*); Salamanca, Jl (*EPV*); Ithaca, Je (*Kngt*); McLean, Jl (*Kngt*); White Plains, Jl, *Bno* (*Kngt*); **LI**: Gardiners I., Jl, *Schoit* (*Kngt*). Sycamore (*Platanus occidentalis*).
- P. albatus* var. *vittiscutis* Kngt. Ithaca, Je (*Kngt*), type locality. Butter-nut (*Juglans cinerea*).
- P. albonotatus* Kngt. Batavia, Jl-Aug (*Kngt*); McLean, Jl (*Kngt*), type locality. Meadowsweet (*Spiraea salicifolia*).
- P. albonotatus* compar Kngt. Batavia, Jl-Aug (*Kngt*), type locality; McLean, Jl (*Kngt*).
- P. alboradialis* Kngt. Mt. Whiteface, Aug (*Kngt*); Cranberry L., Wanakena, Jl-Aug, *Drk* (*Kngt*); Batavia, Je (*Kngt*), type locality; Four Mile, Jl (*Kngt*); Ithaca, Jl (*Kngt*).
- 1240 *P. annulatus* Uhl. Batavia, Jl-Aug (*Kngt*); Four Mile, Jl (*Kngt*); Ithaca, Jl (*Kngt*); **LI**: Kissena Pk., Je, *Ols* (*Kngt*); North Beach, Jl, *Ols* (*Kngt*).
- P. annulatus* var. *cuneatus* Kngt. Batavia, Jl (*Kngt*); Ithaca, Jl (*Kngt*), type locality. *Aster* sp.
- P. annulatus* var. *nigrofemoratus* Kngt. Ithaca, Jl (*Kngt*), type locality.
- 1234 *P. blatchleyi* Reut. Batavia, Aug (*Kngt*); Hamburg, Je-Jl (*EPV*); Elma, Jl (*EPV*); Gowanda, Aug (*EPV*); Ithaca, Jl (*Kngt*).
- P. blatchleyi* var. *nubilus* Kngt. Ithaca, Jl (*Kngt*), type locality.
- P. brevirostris* Kngt. Ithaca, Jl (*Kngt*), type locality.
- P. caryae* Kngt. Batavia, Je (*Kngt*); Portageville, Je (*Kngt*); Ithaca, Je-Jl (*Kngt*), type locality. Hickory (*Carya* spp.).
- P. chrysanthemi* Wolff. Cranberry L., Wanakena, Jl, *Drk* (*Kngt*); Ithaca, Je-Jl (*Kngt*); McLean, Jl (*Kngt*-CU). *Chrysanthemum leucanthemum*.
- P. cornicola* Kngt. Batavia, Je-Jl (*Kngt*), type locality; Ithaca, Je (*Kngt*); White Plains, Je, *Bno* (*Kngt*). *Cornus* spp.
- P. davisii* Kngt. Pine I., Je, *Ds* (*Kngt*), type locality.
- 1230 *P. delicatus* Uhl. Batavia, Je (*Kngt*). Honey locust (*Gleditsia triacanthos*).
- P. dispar* Kngt. Batavia, Je-Jl (*Kngt*), type locality; Conesus L., Jl (*Kngt*); Hartsdale, Jl, *Bno* (*Kngt*). Hickory (*Carya* sp.).
- P. flavicornis* Kngt. Batavia, Je-Jl (*Kngt*), type locality.
- P. flavoscutellatus* Kngt. Ithaca, Je, *Buys* (*Kngt*); Batavia, Aug (*Kngt*), type locality. *Salix longifolia*.
- P. ilicis* Kngt. Ringwood, Jl (*Kngt*), type locality. *Ilex verticillata*.
- P. intrusus* Kngt. Cranberry L., Je, *Drk* (*Kngt*); McLean, Jl (*Kngt*).
- P. laricicola* Kngt. Cranberry L., Jl, *Drk* (*Kngt*); Ithaca, Je-Jl (*Kngt*), type locality; White Plains, Jl, *Bno* (*Kngt*). *Larix laricina*.
- P. nigronitens* Kngt. Batavia, Jl-Aug (*Kngt*), type locality; Wyoming Co, Jl (*Kngt*); Ithaca, Jl (*Kngt*); White Plains, Je-Jl, *Bno* (*Kngt*).
- 1239 *P. obscurus* Uhl. Mt. Whiteface, Aug (*Kngt*); Cranberry L., Jl-Aug, *Drk* (*Kngt*); Cascade L., Aug, *Brb* (*Kngt*); Batavia, Jl-Aug (*Kngt*); Ithaca, Jl (*Kngt*); McLean, Jl (*Kngt*). Occurs on herbaceous weeds.
- P. obscurus* var. *albocuneatus* Kngt. Batavia, Jl-Aug (*Kngt*), type locality; Portageville, Je (*Kngt*); Four Mile, Jl (*Kngt*); Ithaca, Jl (*Kngt*); McLean, Jl, *Bno* (*Kngt*); White Plains, Jl, *Bno* (*Kngt*). **LI**: Babylon, Jl, *Parsh* (*Kngt*); Cold Sp. Harb., Jl, *Parsh*, Aug, *Bno* (*Kngt*).



- 1238 *P. obscurus* var. *fraternus* Uhl. Mt. Whiteface, Aug (*Kngt*); Cranberry L., Wanakena, Jl-Aug, *Drk* (*Kngt*); Cascade L., Aug, *Brb* (*Kngt*); Batavia, Je-Sep (*Kngt*); Portageville, Aug (*Kngt*); Ithaca, Jl-Aug (*Kngt*); McLean, Jl (*Kngt*); White Plains, Je, *Bno* (*Kngt*); **LI**: Cold Sp. Harb., Jl, *Parsh* (*Kngt*).
- 1241 *P. politus* Uhl. Cranberry L., Jl, Wanakena, Aug, *Drk* (*Kngt*); Batavia, Je-Oct (*Kngt*); Hamburg, Jl (*EPV*); Elma, Aug (*EPV*); Gowanda, Aug (*EPV*); Four Mile, Jl (*Kngt*); Ithaca, Je-Oct (*Kngt*); McLean, Jl (*Kngt*); White Plains, Jl, *Bno* (*Kngt*); **SI**, Jl, *Ds* (*Kngt*); **LI**: Cold Sp. Harb., Aug, *Brb* (*Kngt*); Mamaroneck, Sep, *Bno* (*Kngt*). Ragweed (*Ambrosia* spp.).
- P. politus* var. *flaveolus* Kngt. Batavia, Aug-Oct (*Kngt*), type locality; Ft. Montgomery, Jl, *Schott* (*Kngt*); White Plains, Sep, *Bno* (*Kngt*); **SI**: Arrochar, Sep, *Ds* (*Kngt*); **LI**: Cold Sp. Harb., Aug, *Brb* (*Kngt*); Forest Hills, Sep, *Ols* (*Kngt*); Orient, Sep, *Schott* (*Kngt*). Ragweed (*Ambrosia* spp.).
- P. politus* var. *pallidicornis* Kngt. Mt. Whiteface, Aug (*Kngt*); Cranberry L., Wanakena, Jl-Aug, *Drk* (*Kngt*); Batavia, Je-Aug (*Kngt*); Ithaca, Je-Jl (*Kngt*), type locality; McLean, Jl (*Kngt*); Hartsdale, Je, *Bno* (*Kngt*).
- P. punctatipes* Kngt. Batavia, Jl (*Kngt*); Ithaca, Je (*Kngt*), type locality. Collected on flowers of an ornamental *Spiraea*.
- P. repetitus* Kngt. Mt. Whiteface, Aug (*Kngt*), type locality; McLean Bogs, Jl, *Buys* (*Kngt*); Conifer, Jl, *Drk* (*Kngt*); Wanakena, Jl-Aug, *Drk* (*Kngt*).
- P. repletus* Kngt. Batavia, Je (*Kngt*), type locality.
- P. repletus* var. *apicatus* Kngt. Conesus L., Jl (*Kngt*), type locality.
- P. suffuscipennis* Kngt. Rochester Jct., Je, *Leon* (*Kngt*), type locality; White Plains, Je, *Bno* (*Kngt*). Spruce (*Picea* spp.).

## PSALLUS Fieber

- P. alnicenatus* Kngt. Cranberry L., Jl, *Drk* (*Kngt*); Conifer, Jl, *Osb* (*Kngt*); Ithaca, Jl (*Kngt*); McLean Bogs, Jl (*Kngt*), type locality. Alder (*Alnus incanus*).
- P. alnicola* Douglas & Scott. Ithaca, Jl (*Kngt*); McLean Bogs, Jl (*Kngt*). Alder (*Alnus* sp.).
- 1243 *P. ancorifer* Fieb. White Plains, Jl, *Bno* (*Kngt*); **LI**: Cold Sp. Harb., Jl, *Brb* (*Kngt*).
- P. drakei* Kngt. Cranberry L., Je, *Drk* (*Kngt*), type locality, Je-Jl, *Htly* (*Kngt*). Willow (*Salix* sp.).
- P. morrisoni* Kngt. Cranberry L., Aug, *Drk* (*Kngt*). **LI**: Cold Sp. Harb., Aug, *Bno* (*Kngt*). Collected on *Myrica* sp.
- P. parshleyi* Kngt. Cranberry L., Jl, *Htly* (*Kngt*).
- P. piceicola* Kngt. Ithaca, Jl, *Bno* (*Kngt*); White Plains, Je-Jl, *Bno* (*Kngt*), type locality. **LI**: Cold Sp. Harb., Jl, *Parsh* (*Kngt*). Spruce (*Picea* sp.).
- P. strobicola* Kngt. Cranberry L., Jl, *Drk* (*Kngt*); Portageville, Je (*Kngt*); Ithaca, Je-Jl (*Kngt*); Taughannock, Jl (*Kngt*); White Plains, Jl, *Bno* (*Kngt*). *Pinus strobus*.

## LEPIDOPSALLUS Knight

- L. minusculus** Knegt. White Plains, J1, *Bno* (Kngt), type locality.  
 1088 **L. rubidus** Uhl. Batavia, J1-Aug (*Kngt*); Honeoye Falls, Aug (*Kngt*); Ithaca, J1 (*Kngt*). *Salix* sp.  
**L. rubidus** var. **atricolor** Knegt. Cranberry L., J1-Aug, *Drk* (Kngt), Aug, *Hily* (Kngt); Wanakena, Aug, *Drk* (Kngt); Batavia, J1-Aug (*Kngt*), type locality. *Salix* sp.

## CRIOCORIS Fieber

- 1223 **C. saliens** (Reut.). Cranberry L., J1, *Drk* (Kngt); Batavia, Aug (*Kngt*); Buffalo, Je (EPV).

## MICROSYNAMMA Fieber

- M. bohemani** (Fall.). Honeoye Falls, Je, *Leon* (Kngt); Rochester Jct., Je, *Leon* (Kngt). *Salix* spp.

## RHINOCAPSUS Uhler

- 1228 **R. vanduzeei** Uhl. Mt. Whiteface, Aug (*Kngt*); Ausable R., Aug (EPV); Cranberry L., J1-Aug, *div.* (Kngt); Wanakena, J1, *Drk* (Kngt); Fulton Co, *Alex* (EPV); Batavia, Je-Aug (Kngt); Buffalo, Lancaster, Colden, Je-J1 (EPV); Hamburg, J1 (EPV); Gowanda, Aug (EPV); Portageville, Je (*Kngt*). Raspberry (*Rubus* spp.).

## ATRACOTOMUS Fieber

- A. magnicornis** (Fall.). Ithaca, J1 (*Kngt*); White Plains, Je-J1, *Bno* (Kngt); Hartsdale, J1, *Bno* (Kngt). *Pinus sylvestris* and *Picea*.  
**A. magnicornis** var. **buenoi** Knegt. White Plains, Je, *Bno* (Kngt), type locality. Hemlock (*Tsuga canadensis*).

## REUTEROSCOPUS Kirkaldy

- 1213 **R. ornatus** (Reut.). Ithaca, J1 (*Kngt*); Buffalo, J1-Aug (EPV); White Plains, J1-Oct, *Bno* (Kngt); Mosholu (Heid); Yorktown Hgts., Sep, *Ols* (Kngt); **LI**: Cold Sp. Harb., J1, *Bno* (Kngt); Pinelawn, Sep, *Ds* (Kngt); Woodhaven, J1 (Kngt-Brooklyn Museum). Ragweed (*Ambrosia* spp.).

## MACROTYLUS Fieber

- 1200 **M. sexguttatus** (Prov.). Cranberry L., J1-Aug, *Drk* (Kngt); Batavia, Je-J1 (*Kngt*); Four Mile, J1 (*Kngt*). *Aster undulatus*, *A. acuminatus*.

## LOPUS Hahn

- 1207 **L. decolor** (Fall.). Cranberry L., Aug, *Drk* (Kngt); Elka Pk., Wanakena, Aug, *Drk* (Kngt); Fulton Co, *Alex* (EPV); Rochester Jct., J1, *Leon* (Kngt); Ithaca, J1, *Bno* (Kngt); McLean, J1 (*Kngt*); White Plains, J1, *Bno* (Kngt); Mosholu (Heid). **LI**: Huntington, J1, *Schott* (Kngt); Orient, J1, *Ds* (Kngt). *Juncus dudleyi* at McLean.

## ORECTODERUS Uhler

- 1101 **O. obliquus** Uhl. **LI:** Bay Shore, Jl, *Ols*; Half Way Hollow Hills, Jl, *Ds* (Kngt).  
**O. obliquus** var. **ferrugineus** Kngt. **LI:** Bay Shore, Jl, *Ols* (Kngt), type locality.

## TELEORHINUS Uhler

- T. tephrosicola** Kngt. **LI:** Yaphank, Jl, *Ds* (Kngt), type locality.

## SUBFAMILY DICYPHINAE

## DICYPHUS Uhler

- 1108 **D. agilis** (Uhl.). L. Placid, Aug (*EPV*); Cranberry L., Jl-Aug, *Htly* (Kngt); Wanakena, Jl-Aug, *Drk* (Kngt); Fulton Co, *Alex* (*EPV*); Batavia, Je-Aug (*Kngt*); Hamburg, Je-Jl (*EPV*); Lancaster, Jl-Aug (*EPV*); Gowanda, Aug (*EPV*); Portageville, Je (*Kngt*); Four Mile, Jl (*Kngt*); Conesus L., Je (*Kngt*); Ithaca, Je-Jl (*Kngt*); McLean, Jl (*Kngt*); White Plains, Jl, *Bno* (Kngt); Hartsdale, Jl, *Bno* (Kngt); Grand View, Je, *Brb* (Kngt). *Rubus odoratus*, and possibly other species.  
**D. discrepans** Kngt. Cranberry L., Jl, *Drk* (Kngt), type locality (*vestitus*, *Drk* '22), Je, *Htly* (Kngt).  
 1109 **D. famelicus** (Uhl.). Axton, Je, *MacG* (*EPV*); Cranberry L., Jl-Aug, *Drk* (Kngt); Batavia, Je-Aug (*Kngt*); Buffalo, May-Aug (*EPV*); Labrador L., May, *Buys* (Kngt); Colden, Jl (*EPV*); Hamburg, Je-Aug (*EPV*); Gowanda, Aug (*EPV*); Chautauqua, Je (*EPV*); Otto, Jl, *Comst* (Kngt); Cattaraugus Co, Je (*Kngt*); Portageville, Je-Aug (*Kngt*); Honeoye Falls, Je (*Kngt*); Ft. Montgomery, Sep, *Schott* (Kngt); Bear Mt., Sep, *Schott* (Kngt); White Plains, Sep, *Bno* (Kngt); Grand View, Je, *Brb* (Kngt). *Rubus odoratus*.

## MACROLOPHUS Fieber

- 1116 **M. separatus** (Uhl.). Cranberry L., Wanakena, Jl, *Drk* (Kngt); Fulton Co, *Alex* (*EPV*); Niagara Falls, Aug (*EPV*); Hamburg, Jl (*EPV*).

## HYALIODES Reuter

- 1106 **H. vitripennis** (Say). Cranberry L., Aug, *Htly* (Kngt); Wanakena (*Drk* '22); Saranac L., Aug (*EPV*); Batavia, Jl-Aug (*Kngt*); Niagara Falls, Aug (*EPV*); Buffalo, Sep (*EPV*); Colden, Jl (*EPV*); Elmira, Sep (*EPV*); Boston, Aug (*EPV*); Gowanda, Aug (*EPV*); Salamanca, Jl (*EPV*); Ithaca, Jl, *Kngt* (*EPV*); White Plains, Jl-Aug, *Bno* (Kngt); Mosholu (Heid); W. Nyack, Aug, *Bno* (Kngt); Bronxville, Jl (*Wood*); **SI** (Heid); **LI:** Yaphank, Jl, *Ds* (Kngt); Wading R., Aug, *Ds* (Kngt). Occurs on several plants, but is frequent on *Vitis*; predacious on plant lice.  
 1106a **H. vitripennis** var. **discoidalis** Reut. Batavia, Jl-Aug (*Kngt*); Buffalo, Aug (*EPV*); Johnstown, Aug, *Alex* (*EPV*); Hamburg, Aug (*EPV*). **LI:** High Hill, Aug (*Bno*); W. Nyack, Je, *Ols* (Kngt).

## SUBFAMILY BRYOCORINAE

## MONALOCORIS Dahlbom

- 1082 **M. flicis** (L.). L. Placid, Aug (EPV); Cranberry L., Jl-Aug, *Drk*, *Htly* (Kngt); Wanakena, Aug, *Drk* (Kngt); Fulton Co, *Alex* (EPV); Mt. Whiteface, Aug (Kngt); Niagara Falls, Sep, *MCV* (EPV); Buf-falo, Jl-Sep (EPV); Hamburg, Jl (EPV); Lancaster, Aug (EPV); McLean, Jl (Kngt); White Plains, Jl, *Bno* (Kngt); Ft. Montgomery, Sep, *Schott* (Kngt). **SI:** (Heid); Tottenville, Aug, *Ds* (Kngt); **LI:** Cold Sp. Harb., Jl, *Brb* (Kngt), Aug, *Bno* (Kngt); Yaphank, Jl-Sep, *Ds* (Kngt).

## PYCNODERES Guérin

- 1079 **P. dilatatus** Reut. W. Nyack, Aug, *Ols* (Kngt).

## SIXEONOTUS Reuter

- 1074 **S. insignis** Reut. NY (Reut); Fulton Co, *Alex* (EPV); Hamburg, Je (EPV); Gowanda, Aug (EPV).

## SYSINAS Distant

- 1083 **S. linearis** Distant. **LI:** Sea Cliff (Bks, Kngt).

## SUBFAMILY CYLAPINAE

## CYLAPUS Say

- 1090 **C. tenuicornis** Say. Niagara Falls, Jl (EPV); Gowanda, Aug (EPV); Ithaca, Jl, *Plunk* (Kngt). **SI:** Richmond, Aug, *Ds* (Kngt); **LI:** Queens, Jl, *Ds* (Kngt); Sea Cliff, Aug (Bks).

## FULVIUS Stål

- 1091 **F. brunneus** (Prov.). Catskill, *Brb* (EPV); Ithaca, Mar (Kngt-CU); Saugerties, Aug, *Ds* (Kngt); **LI:** Wyandanch, Aug, *Schott* (Kngt).

## SUBFAMILY CLIVINEMINAE

## LARGIDEA Van Duzee

- 1089<sup>3</sup> **L. davisii** Kngt. Bear Mt., Sep, *Schott* (Kngt). **LI:** Promised Land, Sep, *Ds* (Kngt); Yaphank, Sep, *Ds* (Kngt). Occurs on Pinus.

## SUBFAMILY DERAEOCORINAE

## EUSTICTUS Reuter

- 1054 **E. grossus** (Uhl.). **SI**, Jl, *Ds* (Kngt); **LI:** Yaphank, Sep, *Ds* (Kngt).  
**E. necopinus** Kngt. White Plains, Jl, *Bno* (Kngt), type locality. Occurs on aspen.  
 1050 **E. venatorius** VanD. Hamburg, Aug (EPV), type locality. **LI:** Central Pk., Jl-Aug, *Ds* (Kngt).

## EURYCHILOPTERELLA Reuter

- 1056 **E. luridula** Reut. Holley, Jl, *Hawl* (Kngt); Batavia, Jl (*Kngt*); Buffalo, Jl, *EPV* (Reut), type locality; White Plains, Je-Jl, *Bno* (Kngt). Occurs on apple trees.

## DERAEOCORIS Kirschbaum

## (Subgenus CAMPTOBROCHIS)

- 1063 **D. histrio** Reut. Ithaca, Aug (Kngt-CU). **LI:** Cold Sp. Harb., Aug, *Parsh* (Kngt). Breeds on Polygonum.
- 1058 **D. nebulosus** Uhl. Axton, Je, *MacG* (EPV); L. Placid (EPV); Cranberry L., Jl, *Os* (Kngt); Fulton Co, *Alex* (EPV); Batavia, Je-Sep (*Kngt*); Niagara Falls, Je, *EPV* (Kngt); Buffalo, Jl-Aug (EPV); Salamanca, Jl (*EPV*); Ithaca, Feb, under bark of log, Ap, under sycamore bark, Jl, Oct (*Kngt*); McLean, Jl (Kngt); West Pt., Aug, *Brb* (Kngt); Schenectady, Aug, *Heid* (Kngt); L. Mahopac, Aug, *Bno* (Kngt); Oliverea, Sep, *Ds* (Kngt); White Plains, Je-Jl, *Bno* (Kngt); Mosholu (Heid), Nov, by sifting, *Brb* (Kngt). **SI,** Jl-Aug, *Ols* (Kngt), Jl, *Ds* (Kngt). **LI:** Brooklyn, Oct, *Ds* (Kngt); Maspeth, Aug, *Ols* (Kngt); Rockaway Beach, May, *Ds* (Kngt), Aug, *Ols* (Kngt); Cold Sp. Harb., Jl, *Brb* (Kngt); Port Washington, Sep, *Ols* (Kngt); Yaphank, Sep, *Ds* (Kngt). Occurs on white oaks; predacious on *Phylloxera rileyi* Rly.
- D. nubilus** Kngt. Wanakena, Aug, *Drk* (Kngt); Batavia, Jl (*Kngt*); Portageville, Je (*Kngt*); Taughannock, Jl (*Kngt*); Ithaca, Feb, under bark of log, May-Jl (Kngt), type locality; White Plains, Ap-Aug, *Bno* (Kngt); Saugerties, Jl, *Brb* (Kngt). Breeds on *Pinus resinosa*.
- D. poecilus** McAtee. Ithaca, Jl (*Kngt*); McLean, Jl, Sep, *Sib* (Kngt). Occurs on *Alnus rugosa*; probably predacious.

## (Subgenus DERAEOCORIS)

- D. albigulus** Kngt. Ithaca, Je (Kngt), type locality; Bear Mt., Je-Jl, *Schott* (Kngt); Hartsdale, Jl, *Bno* (Kngt). Breeds on *Pinus sylvestris*.
- D. alnicola** Kngt. Batavia, Je-Jl (*Kngt*); Portageville, Je (Kngt); McLean, Jl (*Kngt*), type locality; White Plains, Je-Jl, *Bno* (Kngt). Breeds on *Alnus*; probably predacious.
- D. aphidiphagus** Kngt. Cranberry L., Je, *Drk* (Kngt); Batavia, Je-Jl (*Kngt*); Lancaster, Jl, *EPV* (Kngt); Portageville, Jl (*Kngt*); Conesus L., Jl (*Kngt*); Ithaca, Je-Jl (*Kngt*), type locality; McLean, Jl (*Kngt*); White Plains, Jl, *Bno* (Kngt); Hartsdale, Jl, *Bno* (Kngt). Occurs on *Ulmus* and is predacious on *Eriosoma americanum* Rly.
- D. betulae** Kngt. Cranberry L., Je-Jl, *Drk* (Kngt), Jl-Aug, *Htly* (Kngt); Long L., *Ds* (Kngt); Mt. Whiteface, Jl, *Ds* (Kngt); Four Mile, Jl (*Kngt*); Ithaca, Je-Jl (*Kngt*), type locality; Ringwood, Je-Jl (*Kngt*); McLean, Jl (*Kngt*); White Plains, Je-Jl, *Bno* (Kngt); Ft. Montgomery, Je, *Schott* (Kngt); Hartsdale, Jl, *Bno* (Kngt); **SI,** Je-Jl, *Ds* (Kngt). **LI:** Cold Sp. Harb., Jl, *Parsh* (Kngt). Breeds on beech (*Betula lutea*); is predacious on aphids.
- D. borealis** (VanD.). Cranberry L., Jl, *Drk* (Kngt); Wanakena, Jl, *Drk* (Kngt); Plattsburg, Jl, *Ds* (Kngt); Batavia, Je-Jl (*Kngt*); Portageville, Je (Kngt); Ithaca, Jl (*Kngt*); McLean, Jl (*Kngt*); White Plains, Je, *Bno* (Kngt); Oliverea, Jl, *Ds*, *Shoe* (Kngt); **LI:** Rockaway Beach, Je, *Ols* (Kngt).



- D. davisi* Kngt. **SI**, Je, *Ds* (Kngt), type locality.
- D. fasciolus* Kngt. Cranberry L., Jl-Aug, *Drk*, *Hily* (Kngt); Wanakena, Aug, *Drk* (Kngt); Batavia, Je-Aug (Kngt); Ithaca (Kngt), type locality, Je-Jl, *Wellhouse* (Kngt); White Plains, Jl, *Bno* (Kngt). Occurs on *Crataegus*, apple, and occasionally other plants; is predacious on aphids.
- D. fasciolus* var. *castus* Kngt. Cranberry L., Aug, *Hily* (Kngt); Batavia, Je-Aug (Kngt); Ithaca (Kngt); **SI**, Je-Jl, *Ds* (Kngt). Predacious on *Phyllaphis fagi* L.
- 1070 *D. grandis* (Uhl.). Batavia, Jl (Kngt); Conesus L., Jl (Kngt); Ithaca, Je (Kngt); White Plains, Je-Jl, *Bno* (Kngt); W. Hebron, Aug, *Bno* (Kngt); **LI**: Rockaway Beach, Jl, collected in wash-up, *Ols* (Kngt). Breeds on hickory (*Carya* spp.).
- D. laricicola* Kngt. Conifer, Jl, *Osb* (Kngt); Wanakena, Aug, *Drk* (Kngt); Batavia, Je-Jl (Kngt); Ithaca, Je-Jl (Kngt), type locality. Breeds on larch (*Larix laricina*).
- D. nitenatus* Kngt. Ithaca, Jl (Kngt); Lancaster, Jl, *EPV* (Kngt); White Plains, Jl-Aug, *Bno* (Kngt); **SI**, Jl-Aug, *Ds* (Kngt); **LI**: Bay Shore, Jl, *Ols* (Kngt); Maspeth, Jl-Aug, *Ols* (Kngt); Kings Pk., Jl, *Bell* (Kngt); Roslyn, Aug, *Ols* (Kngt); Aqueduct, Jl, *Ds* (Kngt). Predacious on *Eriosoma lanigerum*.
- D. pinicola* Kngt. Cranberry L., Jl, *Drk* (Kngt); Conifer, Jl, *Osb* (Kngt); Wanakena, Aug, *Drk* (Kngt); Ithaca, Je-Jl (Kngt), type locality; Ringwood, Je-Jl (Kngt); White Plains, May, *Bno* (Kngt); **LI**: Wyandanch, Jl, *Ds* (Kngt). Occurs on *Pinus strobus*; predacious on *Chermes pinicorticis* Fh.
- D. quercicola* Kngt. Batavia, Jl (Kngt); Four Mile, Jl (Kngt); Portageville, Je (Kngt); Conesus L., Jl (Kngt), type locality; Ithaca, Je-Jl (Kngt); White Plains, Jl, *Bno* (Kngt); Pine L., Je, *Ds* (Kngt); Hartsdale, Jl, *Bno* (Kngt); **SI**: Roseville, Jl, *Ds* (Kngt); Richmond, Je, *Ds* (Kngt); **LI**: Bay Shore, Jl, *Ols* (Kngt); Massapequa, Jl, *Ds* (Kngt); Yaphank, Jl, *Ols* (Kngt). Breeds on *Quercus alba*.
- D. quercicola* var. *pallens* Kngt. Batavia, Jl-Aug (Kngt), type locality; Buffalo, Jl, *EPV* (Kngt). Breeds on *Quercus macrocarpa*.
- 1067 *D. sayi* (Reut.). Ithaca, Je (Kngt). Occurs on *Quercus*.
- 1071 *D. ruber* (L.). White Plains, Je, *Bno* (Kngt); **SI**, Jl, *Ds* (Kngt); **LI**: Brooklyn, Jl, *Ds* (Kngt); Maspeth, Jl, *Ols* (Kngt). Predacious on aphids.
- D. ruber* var. *bicolor* Kngt. **LI**: Brooklyn, Jl, *Ds* (Kngt).
- 1071b *D. ruber* var. *segusinus* (Muller). White Plains, Je, *Ols*, Je, *Bno* (Kngt). **LI**: Maspeth, Je-Jl, *Ols* (Kngt).

## SUBFAMILY ORTHOTYLINAE

## PARTHENICUS Reuter

- 1214 *P. juniperi* (Heid.). Taughannock, Jl (Kngt); W. Nyack, Sep, at light, *Ols* (Kngt); Mosholu, Jl, *Bno* (Heid), type locality; **LI**: Rockaway Beach, Sep, *WAHoffman* (Kngt); Cold Sp. Harb., Jl, *Parsh* (Kngt); Coram, Jl, *Eng* (Kngt). *Juniperus virginiana*.
- 1199 *P. vaccini* (VanD.). **LI**: Sea Cliff, *Bks* (Kngt). *Vaccinium*.

## HALTICUS Hahn

- 1122 **H. citri** (Ashm.). Fulton Co, *Alex* (EPV); Buffalo, Sep (EPV); Boston, Aug (EPV); Hamburg, Jl-Aug (EPV); Gowanda, Aug (EPV); Cattaraugus Co, Aug (Kngt); Ithaca, Jl (Kngt-CU); White Plains, Je-Sep, *Bno* (Kngt); Yorktown Hgts., Sep, *Ols* (Kngt). White clover, beans, *Plantago lanceolata*; recorded also on many other plants.
- 1120 **H. intermedius** Uhl. Batavia, Jl-Aug (Kngt); Elma, Je (EPV); Cattaraugus Co, Aug (Kngt); Wyoming Co, Aug (Kngt); McLean Bogs, Ithaca, Jl, *Buys* (Kngt); Ringwood, Jl (Kngt); White Plains, Jl, *Bno* (Kngt). *Clematis virginiana*.

## STRONGYLOCORIS Blanchard

- 1123 **S. stygica** (Say). Cranberry L., Jl, *Drk* (Kngt); Batavia, Je-Aug (Kngt); Ithaca, Jl (Kngt). *Solidago* spp.

## ORTHOCEPHALUS Fieber

- 1189 **O. mutabilis** (Fall.). Ithaca, Je-Jl (Kngt); Ringwood, Jl (Kngt); McLean, Jl (Kngt); Owego, Jl, *JLFrank* (Kngt). *Chrysanthemum leucanthemum*.

## LABOPS Burmeister

- L. hirtus** Kngt. Axton, Je, *MacG* (Kngt); Cranberry L., Jl, *Drk* (Kngt); Conifer, Jl, *Drk* (Kngt); Wanakena, Aug, *Drk* (Kngt); Wilmington, Jl, *Ds* (Kngt); Clinton Co, Je (Kngt); Peru, Je, *Ds* (Kngt); Fulton Co, *Alex* (Kngt).

## HADRONEMA Uhler

- 1153 **H. militaris** Uhl. **LI:** Yaphanak, May, *Ols*, Je, *Ds* (Kngt). *Baptisia tinctoria*.

## ILNACORA Reuter

- 1185 **I. malina** (Uhl.). Cranberry L., Jl, *Drk* (Kngt); Wanakena, Jl, *Drk* (Kngt); Adirondacks, Aug (EPV); Fulton Co, *Alex* (EPV); Hamburg, Jl (EPV); Lancaster, Jl (EPV); Four Mile, Jl (Kngt); Ithaca, Je-Jl (Kngt); Pine I., Je, *Brb* (Kngt); White Plains, Je, *Bno* (Kngt); Olivera, Je, *Ds* (Kngt). *Solidago rugosa*, growing in shaded damp places at Four Mile.
- 1184 **I. stalii** Reut. "NY", *Belfrage* (Reut '76); Buffalo, Jl-Aug (EPV); Lancaster, Jl (EPV); Ithaca, Jl (Kngt); **LI:** Brooklyn, Aug, *Ds* (Kngt). Occurs on cocklebur and other herbaceous weeds.

## LOPIDEA Uhler

- 1143 **L. caesar** (Reut.). Ithaca, Jl (Kngt); Enfield Glen, Aug, *Buys* (Kngt); West Point, Sep, Ft. Montgomery, Jl, *Ds* (Kngt).
- 1147 **L. confluens** (Say). Batavia, Jl (Kngt); Enfield Glen, Aug, *Buys* (Kngt); Colden, Jl, EPV (Kngt); Salamanca, Aug, EPV (Kngt); White Plains, Jl, *Bno* (Kngt); **LI:** Cold Sp. Harb., Jl-Aug, *Parsh* (Kngt). *Polymnia uvvedalia*, and probably *P. canadensis*.
- 1152 **L. cuneata** VanD. Lancaster, Sep (EPV), type locality. *Populus balsamifera* and *P. deltoides*.

- 1089½ **L. davisii** Kngt. **LI**: Half Way Hollow Hills, *Ds* (Kngt). Both wild and cultivated Phlox.
- L. minor** Kngt. Ithaca, Je, *Buys* (Kngt).
- L. heidemanni** Kngt. Batavia, Je (*Kngt*), type locality; Lancaster, Je, *EPV* (Kngt); Four Mile, Jl (*Kngt*); Portageville, Je (*Kngt*); Conesus L., Jl (*Kngt*); Honeoye Falls, Je (*Kngt*); Rochester Jct., May, *Leon* (Kngt); Ithaca, Je (*Kngt*-CU); West Pt., Je, *Ds* (Kngt); Pine I., Je, *Ds* (Kngt); White Plains, Je, *Bno* (Kngt); Grand View, Je, *Brb* (Kngt); Olivera, Je, *Ds*, *Shoe* (Kngt); W. Nyack, Je, *Ols* (Kngt); **LI**: Farmingdale, Jl, *Morrow* (Kngt); Yaphank, Jl, *Ds* (Kngt). *Ulmus*, and *Achillea millefolium*.
- 1145a **L. marginalis** Reut. Elka Pk., Aug, *Blkm* (Kngt); Ithaca, Jl (*Kngt*); Enfield Glen, Aug, *Buys* (Kngt); Ft. Montgomery, Jl, *Ds* (Kngt); White Plains, Jl-Aug, *Bno* (Kngt); Saugerties, Jl, *Brb* (Kngt); **LI**: Cold Sp. Harb., Jl, *Parsh* (Kngt).
- 1146 **L. media** (Say). L. Placid, Aug (*EPV*); Cranberry L., Jl-Aug, *Drk*, *Htly* (Kngt); Conifer, Jl, *Osb* (Kngt); Wanakena, Aug, *Drk* (Kngt); Cascade L., Aug, *Brb* (Kngt); Wilmington, Jl, *Ds* (Kngt); Batavia, Jl (*Kngt*); Niagara Falls, Aug (*EPV*); Buffalo, Jl (*EPV*); Colden, Jl (*EPV*); Hamburg, Jl (*EPV*); Elma, Aug (*EPV*); Lancaster, Jl (*EPV*); Gowanda, Aug (*EPV*); Salamanca, Jl (*EPV*); Otto, Jl, *Comst* (Kngt); Four Mile, Jl (*Kngt*); McLean, Jl, *Buys* (Kngt); Ithaca, Aug (Kngt-CU); McLean, Jl (*Kngt*); Pine I., Je, *Ds* (Kngt); White Plains, Je-Jl, *Bno* (Kngt); Mosholu (Heid); **SI**, Jl, *Ds*; **LI**: Bellport (Kngt-Brooklyn Museum); Bay Shore, Jl, *Ols* (Kngt); Cold Sp. Harb., Jl-Aug, *div.* (Kngt). *Solidago rugosa*, and probably other herbaceous plants.
- L. reuteri** Kngt. L. George, Jl, *AKFisher* (Kngt); Ramapo, Jl, *Ds* (Kngt); Bear Mt., Aug, *Schott* (Kngt). Witch-hazel (*Hamamelis virginiana*).
- 1149 **L. robiniae** (Uhl.). Batavia, Jl-Aug (*Kngt*); Niagara Falls, Aug (*EPV*); Gowanda, Aug (*EPV*); Wyoming Co, Sep (*Kngt*); Honeoye Falls, Aug (*Kngt*); Ithaca, Jl (*Kngt*); L. Mahopac, Aug (*Bno*); White Plains, Jl-Aug, *Bno* (Kngt); Yonkers, Jl, *Bell* (Kngt); **LI**: Gardiner's I., Aug, *Ds* (Kngt); Flushing, Jl, *Ds* (Kngt); Kings Pk., Jl, *Bell* (Kngt); High Hill, Aug (*Bno*); Farmingdale, Jl, *Morrow* (Kngt); Cold Sp. Harb., Jl-Aug, *Bno*, *Brb* (Kngt); Wading R., Jl, *Ds* (Kngt); Yaphank, May (Kngt-Brooklyn Museum). Black locust (*Robinia pseudacacia*).
- L. salicis** Kngt. Batavia, Je (*Kngt*); Portageville, Je (*Kngt*); Honeoye Falls, Je (*Kngt*), type locality; Rochester Jct., Je, *Leon* (Kngt); Ithaca, Je (*Kngt*); Owego, Jl, *JLFrank* (Kngt). *Salix nigra*.
- L. staphyleae** Kngt. Batavia, Jl (*Kngt*), type locality; Lancaster, *EPV* (Kngt). *Staphylea trifolia*.

## MECOMMA Fieber

- 1188 **M. gilvipes** (Stål). Cranberry L., Jl, *Drk* (Kngt); Wanakena, Jl-Aug, *Drk* (Kngt); Ausable R., Aug (*EPV*); Fulton Co, *Alex* (*EPV*).

## CYRTORHINUS Fieber

- C. vagus** Kngt. **LI**: Rockaway Beach, Sep, *WAHoffman* (Kngt), type locality; Sea Cliff, Aug-Sep, *Bks* (Kngt); Orient, Sep, *Schott* (Kngt). Occurs on sedges.

## ORTHOTYLUS Fieber

- O. alni** Kngt. Cranberry L., Jl, *Drk* (Kngt); Mt. Marcy, 5000 ft., Jl, *Ds* (Kngt); McLean Bogs, Jl (Kngt), type locality; Lancaster, Aug, *EPV* (Kngt). *Alnus rugosa*.
- O. basicornis** Kngt. Cranberry L., Jl, *Drk* (Kngt) (*viridis*, Drk '22); Lancaster, Aug, *EPV* (Kngt); Batavia, Aug (Kngt), type locality. *Salix longifolia*.
- 1178½ **O. candidatus** VanD. Cranberry L., Aug, *Htly* (Kngt). *Populus tremuloides*.
- 1175½ **O. catulus** VanD. Wanakena, Jl, *Os*, Aug, *Drk* (Kngt); Niagara Falls, Je (*EPV*); Hamburg, Je (*EPV*). *Gnaphalium uliginosum*.
- 1179¾ **O. cruciatus** VanD. White Plains, Je, *Bno* (Kngt); **LI**: Bay Shore, Jl, *Ols* (Kngt). Found on *Betula populifolia* by Bueno.
- 1176 **O. dorsalis** (Prov.). Cranberry L., Jl-Aug, *div.* (Kngt); Wanakena, Jl, *Os* (Kngt); Batavia, Jl-Aug (Kngt); Honeoye Falls, Je (Kngt); McLean, Jl (Kngt); Ithaca, Je (Kngt); Ringwood, Jl (Kngt); White Plains, Je, *Ols*, *Bno* (Kngt).
- 1172 **O. flavosparsus** (Sahlb.). Batavia, Jl-Sep (Kngt); Buffalo, Je (*EPV*); Hamburg, Jl (*EPV*); Tonawanda, Aug (*EPV*); Ithaca, Jl (Kngt); White Plains, Je-Aug, *Bno* (Kngt). *Chenopodium album*.
- 1179¾ **O. knighti** VanD. Batavia, Jl, *Kngt* (*EPV*), type locality (actually nearer to Attica). *Populus canadensis*.
- 1175½ **O. modestus** VanD. Batavia, Jl, *Kngt* (*EPV*); Buffalo, Aug (*EPV*); Salamanca, Jl (*EPV*); Honeoye Falls, Jl, *Leon* (*EPV*), type locality; Ithaca, Jl (Kngt); L. Mahopac, Aug, *Bno* (Kngt); White Plains, Je, *Bno* (Kngt); **LI**: Cold Sp. Harb., *Parsh* (Kngt). *Salix fragilis* and *S. nigra*.
- O. modestus** var. *immaculatus* Kngt. Batavia, Jl (Kngt), type locality; Honeoye Falls, Aug (Kngt); White Plains, *Bno* (Kngt). **LI**: Cold Sp. Harb., Jl, *Parsh* (Kngt). Breeds on *Salix*.
- 1178½ **O. necopinus** VanD. Cranberry L., Jl, *Htly* (Kngt); Mt. Whiteface, Jl, *Ds* (Kngt); Buffalo, Je (*EPV*); Ringwood, Jl (Kngt). *Betula lutea*.
- O. neglectus** Kngt. Cranberry L., Jl, *Drk*, *Htly* (Kngt); Clayville, Je, *Buys* (Kngt); Batavia, Je (Kngt); Honeoye Falls, Je (Kngt); McLean, Jl (Kngt), type locality. *Salix nigra*.
- 1179¾ **O. ornatus** VanD. Honeoye Falls, Je-Jl, *Leon* (*EPV*, Kngt), type locality; White Plains, Je, *Bno* (Kngt). *Salix fragilis*.
- O. serus** VanD. Batavia, Je-Jl (Kngt); Colden, Jl (*EPV*); Hamburg, Jl (*EPV*); Gowanda, Aug (*EPV*); Salamanca, Jl (*EPV*); Four Mile, Jl (Kngt); Ithaca, Je-Jl (Kngt); McLean, Jl (Kngt). *Crataegus*, and cultivated apple.
- 1178 **O. submarginatus** (Say). Hamburg, Jl (*EPV*); Ithaca, Jl (Kngt); **LI**: Cold Sp. Harb., Jl-Aug, *div.* (Kngt). *Robinia pseudacacia*.
- 1174 **O. translucens** Tuck. Batavia, Jl (Kngt); Buffalo, Je (*EPV*); Elma (*EPV*). *Salix longifolia*.
- 1175½ **O. viridis** VanD. Batavia, Jl-Aug, *Kngt* (*EPV*), type locality; **LI**: Cold Sp. Harb., Jl-Aug, *Bno* (Kngt).

## DIAPHNIDIA Uhler

- 1168 **D. capitata** VanD. Cranberry L., Jl-Aug, *Drk* (Kngt); Wanakena, Jl-Aug, *Drk* (Kngt); Johnstown, Aug, *Alex* (EPV), type locality; Batavia, Jl (*Kngt*); Ithaca, Jl (*Kngt*); **LI**: Cold Sp. Harb., Jl, *Bno* (Kngt). Witch-hazel (*Hamamelis virginiana*); hazelnut (*Corylus*), acc. *Drk* '22.
- 1166 **D. pellucida** Uhl. L. Placid, Aug (EPV); Cranberry L., Jl-Aug, *Drk*, *Htly* (Kngt); Wanakena, Jl-Aug, *Drk* (Kngt); Fulton Co, *Alex* (EPV); Mt. Whiteface, Aug (*Kngt*); Batavia, Je-Aug (*Kngt*); Hamburg, Jl (EPV); Gowanda, Aug (EPV); Conesus L., Jl (*Kngt*); Ithaca, Jl (*Kngt*); McLean, Jl (*Kngt*); White Plains, Je-Jl, *Bno* (Kngt). Apple, *Ostrya virginiana*, and probably other plants.
- 1167 **D. provancheri** (Burque). Cranberry L., Jl-Aug, *Drk*, *Htly* (Kngt); Batavia, Aug (*Kngt*); Hamburg, Sep (EPV); Boston, Jl (EPV); Gowanda, Aug (EPV); White Plains, Jl, *Bno* (Kngt). White oak (*Quercus alba*); beech and yellow birch (*Drk*, 1922).

## REUTERIA Puton

- 1169 **R. irrorata** (Say). Cranberry L., Aug, *Drk* (Kngt); Batavia, Jl-Aug (*Kngt*); Gowanda, Aug (EPV); Salamanca, Jl (EPV); Saugerties, Jl, *Brb* (Kngt); White Plains, Jl, *Bno* (Kngt); Central Pk., NYC, Jl, *Ds* (Kngt); **LI**: Cold Sp. Harb., Jl, *Parsh* (Kngt). *Tilia*, and *Quercus alba*.

## NOCTUOCORIS Knight

- 1178 $\frac{1}{2}$  **N. fumidus** (VanD.). Batavia, Jl-Aug (*Kngt*). Nocturnal in habits.

## HETEROTOMA Latreille

- 1180 $\frac{1}{2}$  **H. merioptera** (Scop.). Honeoye Falls, Aug, *Leon* (Kngt). Probably imported on nursery stock.

## HETEROCORDYLUS Fieber

- 1127 **H. malinus** Reut. Ithaca, Brockport, Syracuse, LaFayette, Batavia, Waterloo, West Palmyra, Albany (Cy); Batavia, Je-Jl (*Kngt*); Colden, Jl, EPV (Reuter), type locality; Hamburg, Je (EPV); Portageville, Je (*Kngt*); Wyoming Co., Je (*Kngt*); Ithaca, Je (*Kngt*); Ringwood, Je-Jl (*Kngt*); McLean, Jl (*Kngt*); White Plains, Je, *Bno* (Kngt).  
Native on *Crataegus*; breeds on wild apple; frequent on apple trees.

## CERATOCAPSUS Reuter

- C. digitulus** Kngt. Cranberry L., Aug, *Htly* (Kngt); Batavia, Jl (*Kngt*); Cattaraugus Co, Aug (*Kngt*); **LI**: Wyandanch, Aug, *Ols* (Kngt); Yaphank, Jl, *Ds* (Kngt). Breeds on *Salix*.
- C. drakei** Kngt. Wanakena, Aug, *Drk* (Kngt), type locality.
- 1142 **C. fasciatus** (Uhl.). Batavia, Aug (*Kngt*); Niagara Falls, Aug (EPV); Hamburg, Aug (EPV); Boston, Aug (EPV); Gowanda, Aug (EPV); Salamanca, Aug (EPV); Ithaca, Jl (*Kngt*); **SI**, Jl, *Ds* (Kngt). Breeds on hickory (*Carya*).
- C. fuscinus** Kngt. Batavia, Aug (*Kngt*); Honeoye Falls, Aug (*Kngt*); **LI**: Cold Sp. Harb., Aug, *Bno* (Kngt). Occurs on *Salix nigra*.



- C. incisus* Knegt. Batavia, Jl-Aug (*Kngt*); Cattaraugus Co, Aug (*Kngt*); Ithaca, Jl (*Kngt*); McLean, Jl (*Kngt*); **LI**: Cold Sp. Harb., Aug, *Bno* (*Kngt*). Occurs on *Salix*.
- 1137 *C. lutescens* Reut. **LI**: Bellport, Sep, *Eng* (*Kngt*).
- C. luteus* Knegt. White Plains, Jl, *Bno* (*Kngt*), type locality.
- 1225 *C. modestus* Uhl. Cranberry L., Aug, *Htly* (*Kngt*); Wanakena, Aug, *Drk* (*Kngt*); Batavia, Jl-Aug (*Kngt*); Portageville, Aug (*Kngt*); Ithaca, Jl (*Kngt*); Ft. Montgomery, Aug, *Schott* (*Kngt*); White Plains, Jl, *Bno* (*Kngt*); Central Pk., NYC, Jl, *Ds* (*Kngt*); **LI**: Greenport, Aug, *Eng* (*Kngt*); Cold Sp. Harb., Aug, *Bno* (*Kngt*); Bear Mt., Aug, *Schott* (*Kngt*). Occurs on basswood (*Tilia*) and grapevine (*Vitis* sp.).
- C. nigellus* Knegt. Batavia, Jl-Aug (*Kngt*), type locality; Conesus L., Jl (*Kngt*); Ithaca, Jl (*Kngt*); White Plains, Aug, *Bno* (*Kngt*). Breeds on hickory (*Carya*).
- C. pilosus* Knegt. Ithaca, Je (*Kngt*); **LI**: Bay Shore, Je, *Ols* (*Kngt*). Occurs on *Ostrya virginiana*.
- 1139 *C. pumilus* (Uhl.). Cranberry L., Aug, *Drk*, *Htly* (*Kngt*); Madison Barracks, Aug (*Kngt*); Batavia, Jl-Aug (*Kngt*); Hamburg, Jl (*EPV*); Gowanda, Aug (*EPV*); Salamanca, Jl (*EPV*); Honeoye Falls, Aug (*Kngt*); McLean, Jl (*Kngt*); White Plains, Jl, *Bno* (*Kngt*); W. Nyack, Aug, *Bno* (*Kngt*); **LI**: Cold Sp. Harb., Aug, *Bno* (*Kngt*). Occurs on *Vitis* spp.
- C. sericeus* Knegt. Mosholu, Aug, *Ds* (*Kngt*); **LI**: Pinelawn, Aug, *Schott* (*Kngt*).
- C. vicinus* Knegt. **SI**, Jl, *Ds* (*Kngt*), type locality; **LI**: Wyandanch, Aug, *Ols* (*Kngt*); Pinelawn, Aug, *Ds* (*Kngt*); Yaphank, Aug, *Ds* (*Kngt*).

## ALEPIDIA Reuter

- 1133 *A. gracilis* (Uhl.). Taughanock, Jl (*Kngt*); White Plains, Jl, *Bno* (*Kngt*); **LI**: Bellport, *Eng* (*Kngt*); Bay Shore, Jl, *Ols* (*Kngt*); High Hill, Aug (*Bno*). Breeds on *Pinus resinosa*.

## PILOPHORUS Westwood

- 1131 *P. amoenus* Uhl. **LI**: Bay Shore, Jl, *Ols* (*Kngt*); Bellport, *Eng* (*Kngt*); Yaphank, Jl, *Ds* (*Kngt*). Breeds on *Pinus virginiana*.
- P. brunneus* Poppius. Cranberry L., Jl, *Drk* (*Kngt*); Wanakena, Aug, *Drk* (*Kngt*); Batavia, Jl-Aug (*Kngt*); Ithaca, Jl (*Kngt*); McLean, Jl (*Kngt*); White Plains, Jl-Aug, *Bno* (*Kngt*). Occurs on *Salix*.
- 1128 *P. clavatus* (L.). Cranberry L., Jl-Aug, *Drk*, *Htly* (*Kngt*); Batavia, Jl-Aug (*Kngt*); White Plains, Jl, *Bno* (*Kngt*); Olivera, Je, *Ds* (*Kngt*). Occurs most frequently on *Quercus*.
- P. strobicola* Knegt. (*crassipes* Knegt., Hemip. Conn., p. 542, 1923). L. Placid, Aug, *EPV* (*Kngt*); Cranberry L., Jl-Aug, *Drk* (*Kngt*); Mt. Whiteface, Aug (*Kngt*); Madison Barracks, Aug (*Kngt*); Ithaca, Je-Jl (*Kngt*); Ringwood, Jl (*Kngt*). Breeds on *Pinus strobus*.
- P. juniperi* Knegt. White Plains, Jl, *Bno* (*Kngt*), type locality. Breeds on *Juniperus virginiana*.
- P. laetus* VanD. **LI**: Bay Shore, Jl, *Ols* (*Kngt*). Breeds on *Pinus virginiana*.

- P. perplexus** Douglas & Scott. Batavia, Jl-Aug (*Kngt*); Geneva, Jl, *Fulton* (*walshii*, *Fulton* '13); White Plains, Jl, *Bno* (*Kngt*). Occurs on goldenrod (*Solidago*), and has been taken on cherry, apple, and red cedar; predacious on aphids (*Fulton*, 1913, *Ann. Ent. Soc. Am.*).
- P. piceicola** *Kngt*. White Plains, Je, *Bno* (*Kngt*); Hartsdale, Jl, *Bno* (*Kngt*), type locality; **LI**: Cold Sp. Harb., Jl, *Bno* (*Kngt*). Breeds on *Picea excelsa*.
- P. uhleri** *Kngt*. Cranberry L., Aug, *Drk* (*Kngt*); Batavia, Jl (*Kngt*); Ithaca, Je-Jl (*Kngt*), type locality; White Plains, Jl (*Kngt*). Breeds on *Pinus sylvestris*.
- P. vanduzeei** *Kngt*. Taughannock, Jl (*Kngt*), type locality; Ithaca, Jl (*Kngt*); **LI**: Amagansett, Aug, *Ols* (*Kngt*); Bay Shore, Jl, *Ols* (*Kngt*); Wyandanch, Sep, *Ols* (*Kngt*); Riverhead, Aug, *Ds* (*Kngt*). Breeds on *Pinus resinosa*.

## SERICOPHANES Reuter

- S. heidemanni** Poppius. *Fulton Co, Alex* (*EPV*); Kingston, Aug (*EPV*); Buffalo, Je (*EPV*); Batavia, Je-Aug (*Kngt*); McLean, Jl (*Kngt-CU*). Nocturnal; males frequently attracted to lights.

## PSEUDOXENETUS Reuter

- 1159 **P. regalis** (Uhl.). **LI**: Yaphank, Je, *Sf* (*Kngt*). Occurs on live oak (*Quercus virginiana*).
- 1160 **P. scutellatus** (Uhl.). Syracuse, Je, *Basinger* (*Kngt*); Batavia, Je-Jl (*Kngt*); Buffalo, Je (*EPV*); Gowanda, Aug (*EPV*); Portageville, Je (*Kngt*); Conesus L., Je (*Kngt*); Ithaca, Je (*Kngt*); Grand View, Je, *Brb* (*Kngt*); Bronxville, Je (*Wood*); **LI**: Nissequogue, Je, *Ds* (*Kngt*); Coram, *Bno* (*Kngt*); Yaphank, Je, *Ds* (*Kngt*); Pine I., Je, *Sf* (*Kngt*). *Quercus alba*, *Q. Muhlenbergii*, and occasionally *Fraxinus*.

## SUBFAMILY MIRINAE

## PITHANUS Fieber

- P. maerkelii** H-S. Honeoye Falls, Je (*Kngt*); White Plains, *Kngt&Bno* (*Kngt*); **LI**: Maspeth, Je, *Ols* (*Kngt*). Grasses.

## MIMOCEPS Uhler

- M. insignis** Uhl. Cranberry L., Jl, *Drk* (*Kngt*); Wanakena, Aug, *Drk* (*Kngt*); Buffalo, Je-Sep, Cheektowaga, Je, Hamburg, Jl, Conesus L., Aug, Springbrook, Je (*EPV*); Armonk, Je, *Bno* (*Kngt*); White Plains, Je, *Bno* (*Kngt*). Sedges.

## COLLARIA Provancher

- C. meilleurii** Prov. Cranberry L., Jl-Aug, Wanakena, Aug, *Drk* (*Kngt*); L. Placid, Aug-Sep (*EPV*); Conifer, Jl, *Osb* (*Kngt*); Sodus Point, Aug, *Buys* (*Kngt*); Batavia, Jl-Aug (*Kngt*); Buffalo, Je-Aug (*EPV*); Hamburg, Jl (*EPV*); Lancaster, Jl-Aug, Colden, Jl, *EPV* (*Kngt*); Otto, Jl, *Comst* (Uhl); Ithaca, Ringwood, Jl (*Kngt*); *Fulton Co, Alex* (*EPV*); E. Jewett, Aug, *Ds* (*Kngt*); Mosholu (Heid). *Calamagrostis canadensis* and other grasses in similar situations.

- C. oculata** Reut. Cranberry L., Jl, *Drk* (Kngt); Fulton Co, *Alex* (EPV); Hamburg, Jl-Sep, Colden, Jl (EPV); White Plains, Je-Oct, *Bno* (Kngt); Mosholu (Heid); **SI**, Aug, *Ds* (Kngt); **LI**: Forest Hills, Sep, *Ols* (Kngt); Gardiners I., Je, *Ds* (Kngt). Grasses in dry sandy meadows.

## MIRIS Fabricius

- M. dolabratus** L. Wilmington, Jl, *Ds* (Kngt); Axton, Je, *MacG* (EPV); L. Placid, Aug (EPV); Wanakena, Je-Jl, *Drk* (Kngt); Sodus Point, Je, *Buys* (Kngt); Batavia, Je (Kngt); Victor, Je, *EPV* (Kngt-CU); Buffalo, May-Aug (EPV); Hamburg, Je (EPV); Wyoming Co, Je (Kngt); Otto, Jl, *Comst* (Uhl); Ithaca, Je-Jl (Kngt-CU); Four Mile, McLean, Jl (Kngt); Albany, Je (Kngt); Bronxville, Je (Wood); **LI**: Gardiners I., Je, *Ds* (Kngt). Blue grass (*Poa pratensis*), timothy, and frequently other grasses.
- M. ferrugatus** Fall. Ithaca, Je-Jl, Ringwood, McLean, Jl (Kngt).

## TERATOCORIS Fieber

- T. discolor** Uhl. Buffalo, Aug-Sep, *EPV* (Kngt); Lancaster, Aug-Sep, Hamburg, Sep (EPV); Ithaca, Je (Kngt). Sedges; attracted to light.
- T. paludum** J. Sahlb. Cranberry L., Jl, *Drk* (Kngt); Buffalo, Aug, *EPV* (Kngt); Conifer, Jl, *Osb* (Kngt); Schuyler L., Aug, *Buys* (Kngt). *Carex vesicaria*; attracted to light.

## TRIGONOTYLUS Fieber

- T. uhleri** Reut. Mamaroneck, Oct, *Bno* (Kngt); **SI**, Je, Sep, *Ds* (Kngt); **LI**: Sea Cliff, Aug, *Ols* (Kngt); Rockaway Beach, Sep, *Ds*, Cold Sp. Harb., Aug, *Bno* (Kngt). Salt meadows.
- T. ruficornis** Geoff. Axton, Je, *MacG* (EPV); Mt. Whiteface, Aug (Kngt); L. Placid, Aug (EPV); Cranberry L., Jl, *Drk* (Kngt); Fulton Co, *Alex* (EPV); Honeoye Falls, Je (Kngt); Batavia, Je-Aug (Kngt); Buffalo, Je-Jl (EPV, Kngt); Hamburg, Aug (EPV); Colden, Jl (EPV, Kngt); Lancaster, Je, *EPV* (Kngt); Wyoming Co, Je (Kngt); Ithaca, Je, McLean, Jl (Kngt); White Plains, Jl, at light (*Bno*); **LI**: Maspeth, Je, *Ols* (Kngt). Oats and closely related wild grasses.

## MESOMIRIS Reuter

- M. curtulus** Reut. **SI**, Aug, *Ds* (Kngt); **LI**: Bellport, Aug, *Eng* (Kngt); Sea Cliff, Aug, *Ols* (Kngt).

## STENODEMA Laporte

- S. trispinosum** Reut. Cranberry L., Je-Aug, *Drk* (Kngt); Fulton Co, *Alex* (EPV); Buffalo, May-Aug (EPV); Portageville, May-Je, *EPV* (Kngt); Lime L., Aug, *EPV* (Kngt); Ithaca, Oct (Kngt); Mamaroneck, Oct, *Bno* (Kngt); Schuyler L., Aug, *Buys* (Kngt); White Plains, Jl-Oct, *Bno* (Kngt); **LI**: Yaphank, May, *Ds* (Kngt); Wyandanch, Aug, *Ols* (Kngt); May-Sep, *Ds* (Kngt). Grasses in moist meadows; adults hibernate.
- S. vicinum** Prov. Axton, Je, *MacG* (EPV); Mt. Whiteface, Aug (Kngt); Cranberry L., Jl-Aug, *Drk* (Kngt); Schuyler L., Aug, *Buys* (Kngt); L. Placid, Jl-Aug (EPV); Fulton Co, *Alex* (EPV); Batavia, Ap-Sep (Kngt); Conesus L., Jl (Kngt); Buffalo, Aug (EPV); Hamburg, Jl-Aug (EPV); Lancaster, Je-Sep, *EPV* (Kngt); Colden, Jl, *EPV* (Kngt); Portageville, May (Kngt); Four Mile, Jl (Kngt); Ithaca, Jl (Kngt); McLean, Jl (Kngt); Enfield Glen, Aug, *Buys* (Kngt); Ft. Montgomery, Sep, *Schott* (Kngt); White Plains, Oct (Kngt); **LI**: High Hill, Aug (*Bno*).

## SUBFAMILY CAPSINAE

## OPISTHEURIA Reuter

- O. clandestina* VanD. Ft. Montgomery, Jl, *Ds* (Kngt).  
*O. clandestina* var. *ventralis* Kngt. Ithaca, Jl (Kngt).

## PLATYTYLELLUS Reuter

- P. borealis* Kngt. Cranberry L., Jl-Aug, *Drk* (Kngt); Wanakena, Aug, *Drk* (Kngt); Colden, Jl, *EPV* (Kngt); Conifer, Jl, *Osb* (Kngt); McLean, Jl, *MacG* (Kngt).  
*P. circumcinctus* Say. Wanakena, Aug, *Drk* (Kngt).  
*P. fraternus* Kngt. Ft. Montgomery, Je, *Schott* (Kngt).  
*P. fraternus* var. *rubromarginatus* Kngt. Ft. Montgomery, Je, *Schott* (Kngt).  
*P. insignis* Say. Cranberry L., Aug, *Drk* (Kngt); Wanakena, Aug, *Drk* (Kngt); LI: Cold Sp. Harb., Jl, *Parsh* (Kngt).  
*P. insitivus* Say. Cranberry L., Jl, *Drk* (Kngt); Buffalo, Jl, *EPV* (Kngt); Portageville, Je (Kngt); Pine I., Je (Wood); LI: Bellport, *Eng* (Kngt); Rockaway, Je, *Ds* (Kngt).  
*P. nigricollis* Reut. Cranberry L., Wanakena, Aug, *Drk* (Kngt); Syracuse, Aug, *Basinger* (Kngt); Springbrook, Je (EPV); Ringwood, Aug, *Buys* (Kngt); Ithaca, Jl (Kngt); McLean, Jl, *Jessie Knight* (Kngt); Elka Pk., Aug, *Drk* (Kngt); Catskills, Aug, *Ds* (Kngt); West Pt., Jl, *Eng* (Kngt); LI: Jl, *Ds* (Kngt); Bellport, Jl, *Eng* (Kngt); Kings Pk., Jl, *Bell* (Kngt).  
*P. nigroscutellatus* Kngt. Batavia, Aug (Kngt); Enfield Glen, Aug, *Buys* (Kngt); Lancaster, Jl, *EPV* (Kngt); Ithaca, Jl-Aug (Kngt-CU), type locality.  
*P. rubrovittatus* Stål. Cranberry L., Wanakena, Aug, *Drk* (Kngt); LI: Bellport, *Eng* (Kngt).

## TROPIDOSTEPTES Uhler

- T. cardinalis* Uhl. Honeoye Falls, Je (Kngt); Batavia, Je (Kngt); Hamburg, Elma, Lancaster, Je (EPV); Conesus L., Je (Kngt); Four Mile, Jl, Ithaca, Je (Kngt); Ellis, Je, *MacG* (Kngt); Pine I., Je, *Ds* (Kngt); Ft. Montgomery, Je, *Schott* (Kngt). *Fraxinus americana*.

## NEOBORUS Distant

- N. amoenus* Reut. Cranberry L., Jl, *Drk* (Kngt); Batavia, Je-Aug (Kngt); Conesus L., Jl-Aug (Kngt, EPV); Buffalo, Boston, Hamburg, Gowanda, Aug (EPV); Salamanca, Jl (EPV); Wyoming Co, Sep (Kngt); Ithaca, Jl (Kngt); L. Mahopac, Aug, *Bno* (Kngt); Pine I., Je (Brooklyn Museum); White Plains, Sep, *Bno* (Kngt); LI: High Hill, Aug (Bno). *Fraxinus americana*, *F. pennsylvanica*; two generations.  
*N. amoenus* var. *scutellaris* Reut. White Plains, Je, *Bno* (Kngt).  
*N. amoenus* var. *signatus* Reut. Mt. Whiteface, Aug (Kngt); Batavia, Aug (Kngt).  
*N. canadensis* VanD. Batavia, Aug (Kngt); Geneva, Je (EPV); Ithaca, Je (Kngt). *Fraxinus americana*.  
*N. geminus* Say. Batavia, Je (Kngt); Colden, Je (EPV); Ithaca, Je, Four Mile, Jl (Kngt). *Fraxinus americana*.  
*N. glaber* Kngt. Batavia, Je (Kngt), type locality; Ithaca, Je (Kngt). *Fraxinus americana*.

- N. palmeri** Reut. Honeoye Falls, Je, Batavia, Je-Aug (Kngt); Hamburg, Aug (EPV); Ithaca, Je (Kngt). *Fraxinus americana*, and probably other ash trees.
- N. pubescens** Kngt. Cranberry L., Je-Aug, *Drk* (Kngt); Fulton Co, *Alex* (Kngt); Batavia, Jl (Kngt); Elma, Je, Hamburg, Jl-Aug, Salamanca, Jl, Gowanda, Aug (EPV); Ithaca, Jl (Kngt), type locality; Bear Mt., Aug, *Schott* (Kngt); White Plains, Je-Jl, *Bno*, *Parsh* (Kngt). *Fraxinus americana*, but found developing only on young plants in shaded situations.
- N. rufusculus** Kngt. Batavia, Je, Portageville, Je, Wyoming Co, Je (Kngt); Ithaca, May-Je (Kngt), type locality. *Fraxinus americana*.

## XENOBORUS Reuter

- X. commissuralis** Reut. Fulton Co, *Alex* (EPV); Batavia, Jl-Aug (Kngt); Salamanca, Jl (EPV); Ithaca, Jl (Kngt). *Fraxinus nigra*.
- X. neglectus** Kngt. Batavia, Je (Kngt); Tompkins Co, Je, *MacG* (Kngt), type locality.
- X. pettiti** Reut. Honeoye Falls, Je (Kngt); Batavia, Je (Kngt); Colden, Hamburg, Geneva, Je (EPV); Conesus L., Je (Kngt); Portageville, Je (Kngt); Wyoming Co, Je (Kngt); Ithaca, Je (Kngt); White Plains, Je, *Bno*, *Parsh* (Kngt).
- X. plagifer** Reut. Fulton Co, *Alex* (EPV); Batavia, Aug (Kngt). *Fraxinus nigra*.

## LYGIDEA Reuter

- L. mendax** Reut. APPLE REDBUG. LaFayette, Syracuse (Cy); W. Palmyra, Brockport (Cy); Batavia, Je-Jl (Kngt); Colden, Jl, *EPV* (Reut); Hamburg, Jl, *EPV* (Reut), type locality; Portageville, Wyoming, Je (Kngt); Gowanda, Jl (Reut); Waterloo, Ithaca (Cy); McLean, Jl, Ringwood, Je (Kngt); Albany (Cy); White Plains, Je, *Bno* (Kngt); **LI**: Yaphank, Jl, *Ds* (Kngt). *Crataegus*, *Pyrus coronaria*, cultivated apple, and to some extent quince.
- L. obscura** Reut. Cranberry L., Wanakena, Jl-Aug, *Drk* (Kngt); L. Placid, Aug, *EPV* (Kngt), type locality; Honeoye Falls, Je, Batavia, Jl (Kngt); Tompkins Co, Je, *MacG* (Kngt); White Plains, Jl, *Bno* (Kngt). *Salix nigra*.
- L. viburni** Kngt. Cranberry L., Jl, *Os* (as *rubecula* Uhl. det. Drk); Batavia, Je-Jl (Kngt), type locality; Wyoming Co, Jl (Kngt). Nannyberry (*Viburnum lentago*); breeds especially on young growth.

## COCCOBAPHES Uhler

- C. sanguinarius** Uhl. Mt. Whiteface, Jl, *Ds* (Kngt); Cranberry L., Jl-Aug, *Drk*, *Hily* (Kngt); Fulton Co, *Alex* (EPV); Batavia, Je-Jl (Kngt); Honeoye Falls, Je (Kngt); Conesus L., Je (Kngt); Buffalo, Jl-Aug, Hamburg, Je-Jl, Colden, Jl, Boston, Jl, Salamanca, Jl (EPV); Ithaca, Jl (Kngt); Ringwood, Jl (Kngt); Four Mile, Jl (Kngt); Oliverea, Je-Jl, *Shoe*, *Ds* (Kngt); Central Val., Jl (*Bno*); Ft. Montgomery, Jl, *Schott* (Kngt).

## CAPSUS Fabricius

- C. ater** L. Wilmington, Jl, *Ds* (Kngt); Cranberry L., Wanakena, Jl, *Drk* (Kngt); Fulton Co, *Alex* (EPV); Niagara Falls, Je (EPV); Batavia, Je (Kngt); Buffalo, May-Aug (EPV); Hamburg, Jl (EPV); Portageville, Je (Kngt); Otto, Jl, *Comst* (CU); Ithaca, Je (Kngt-CU); McLean Bogs, May, *Buys* (Kngt); Four Mile, Jl (Kngt); White Plains, Je, *Bno* (Kngt); **SI**, Je, *Ds* (Kngt); **LI**: Wading R., May-Jl, *Ds* (Kngt). *Poa compressa*, *Agropyron repens*, and probably other grasses.



- C. ater* var. *tyrannus* Fab. Niagara Falls, Buffalo, Je (EPV); Batavia, Je (Kngt).  
*C. ater* var. *semiflavus* L. Cranberry L., Jl-Aug, *Drk* (Kngt); Niagara Falls, Je (EPV); Batavia, Je (Kngt); Colden, Je (EPV); Four Mile, Jl, Ithaca, Je (Kngt).

## PLATYLYGUS Van Duzee

- P. luridus* Reut. Cranberry L., Jl-Aug, *Drk* (Kngt); L. Placid, Aug, *EPV* (Reut), type locality; Ringwood, Jl (Kngt). *Pinus strobus*.

## LYGUS Hahn

- L. approximatus* Stål. Mt. Whiteface, Aug (Kngt); Cascade L., Aug, *Brb* (Kngt); Cranberry L., Wanakena, Jl-Aug, *Drk* (Kngt). Hemlock (*Tsuga canadensis*); frequently attracted to flowers of *Solidago macrophylla*.  
*L. campestris* L. Syracuse, Jl, *Basinger* (Kngt); Batavia, May-Jl (Kngt); Hamburg, Je, Colden, Jl (EPV); Ithaca, McLean, Jl (Kngt); West Pt., Jl, *Brb* (Kngt); Schuyler L., Aug, *Buys* (Kngt); Mosholu (Heid). *Conium maculatum*, also on other plants of the family Umbelliferae.  
*L. fasciatus* Reut. **LI**: Bayville, *Bks* (Kngt), taken on *Baccharis halimifolia*.  
*L. pabulinus* L. Mt. Whiteface, Aug (Kngt); Cascade L., Aug, *Brb* (Kngt); L. Placid, Aug (EPV); Wanakena, Jl, *Drk* (Kngt); Fulton Co, *Alex* (EPV); Johnstown, *Ds* (Kngt); Batavia, Jl-Aug (Kngt); Boston, Aug, *EPV* (Kngt); Buffalo, Jl-Aug, E. Aurora, Sep, Hamburg, Jl-Aug, Salamanca, Jl, Gowanda, Aug (EPV); Portageville, Je (Kngt); Wyoming, Je (Kngt); Howland I., Cayuga Co, under bark, Nov, *Cy* (Kngt); Ithaca, Jl (Kngt); Four Mile, Jl (Kngt); McLean, Jl, *Bno*, *Sib* (Kngt); Oliverea, Je, Sep, *Ds* (Kngt); **SI** (Heid); **LI**: Cold Sp. Harb., Jl, *Bno*, Flushing, Aug, *Ds* (Kngt). Breeds on *Impatiens biflora*.  
*L. plagiatus* Uhl. Cranberry L., Je-Aug, Wanakena, Jl-Aug, *Drk* (Kngt); Batavia (Kngt); Buffalo, Je-Sep (EPV); Ithaca, Jl (Kngt); White Plains, Aug-Oct, *Bno* (Kngt); **LI**: Maspeth, Mar, *Ols*, Forest Hills, Oct, *Ols* (Kngt). Breeds on great ragweed (*Ambrosia trifida*).  
*L. pratensis* var. *oblineatus* Say. Common throughout the State. This species is a pest on nursery stock, ornamental plants, and cultivated crops.  
*L. pratensis* var. *strigulatus* Wlk. Cranberry L., Jl, *Drk* (Kngt); McLean, Aug (Kngt-CU).  
*L. rubicundus* Fall. Honeoye Falls, Je (Kngt); Batavia, Jl (Kngt); Buffalo, Jl, Lancaster, May-Jl, Colden, Aug (EPV); Ithaca, Ap-Jl (Kngt); White Plains, Ap, Jl, *Bno* (Kngt). Breeds on *Salix amygdaloides*, also occurs on other willows; hibernates.  
*L. vanduzeei* Kngt. Mt. Whiteface, Aug (Kngt); Wilmington, Jl, *Ds* (Kngt); Cranberry L., Je-Jl, *Hily* (Kngt); Wanakena, Jl (Kngt); Clayville, Je, *Buys* (Kngt); Fulton Co, *Alex* (EPV); Batavia, Jl (Kngt); Portageville, Je (Kngt), type locality; Hamburg, Je, *EPV* (Kngt); Wyoming, Je (Kngt); Gowanda, Aug, *EPV* (Kngt); Four Mile, Jl (Kngt); Labrador L., May, *Buys* (Kngt); McLean, Jl, *Sib* (Kngt); L. George, Jl, *Fisher* (Kngt); Catskills, Sep, Oliverea, Je, Sep, *Ds* (Kngt).  
*L. vanduzeei* var. *rubroclarus* Kngt. Cranberry L., Je-Aug, *Drk* (Kngt); Oliverea, Je, *Ds* (Kngt).  
*L. (Neolygus) alni* Kngt. Wanakena, Jl, *Ols*, Aug, *Drk* (Kngt); Cranberry L., Jl-Aug, *Drk* (Kngt); Ithaca, Ringwood, Jl (Kngt); McLean, Jl (Kngt), type locality. Breeds on *Alnus incana*.

- L. (*Neolygus*) *atritylus* Kngt. Cranberry L., Jl-Aug, *Drk*, *Htly* (Kngt). *Salix*.
- L. (*Neolygus*) *belfragii* Reut. Cranberry L., Wanakena, Jl-Aug, *Drk* (Kngt); Syracuse, Jl, *Basinger* (Kngt); Conesus L., Je, Batavia, Jl-Aug (Kngt); Colden, Je, Hamburg, Aug (EPV); Portageville, Je (Kngt); Wyoming, Je (Kngt); Gowanda, Aug, Salamanca, Jl (EPV); McLean, Jl, Ithaca, Je-Jl, Ringwood, Jl (Kngt); Four Mile, Jl (Kngt); White Plains, Aug, *Bno* (Kngt). Breeds on *Acer spicatum* and *Viburnum acerifolium*.
- L. (*Neolygus*) *canadensis* Kngt. Wanakena, Jl-Aug, *Drk* (Kngt). Breeds on hazelnut (*Corylus rostrata*), according to Drk.
- L. (*Neolygus*) *canadensis* var. *binotatus* Kngt. W. Nyack, Je, *Ols* (Kngt).
- L. (*Neolygus*) *caryae* Kngt. Honeoye Falls, Je, *Leon* (Kngt); Batavia, Je (Kngt), type locality; Portageville, Conesus L., Je (Kngt); Hamburg, Je, *EPV* (Kngt); Ithaca, Je-Jl, McLean, Jl (Kngt). On hickory (*Carya*).
- L. (*Neolygus*) *caryae* var. *subfuscus* Kngt. Batavia, Je-Jl (Kngt), type locality; Byron, Portageville, Je (Kngt); Conesus L., Wyoming, Je (Kngt); Spring Brook, Je, *EPV* (Kngt); Ithaca, Four Mile, Je-Jl (Kngt). *Carya*.
- L. (*Neolygus*) *communis* Kngt. THE PEAR PLANT-BUG. Cranberry L., Wanakena, Jl-Aug, *Drk* (Kngt); Batavia, Je-Jl (Kngt), type locality; Geneva (as *invitus* Say), *Parrott&Hodgkiss*; Honeoye Falls, Je (Kngt), Hamburg, Jl, Spring Brook, Je, *EPV* (Kngt); Conesus L., Je (Kngt); Wyoming, Portageville, Je (Kngt); Salamanca, Jl, *EPV* (Kngt); McLean, Jl, *Bno*, Ithaca, Je-Jl (Kngt); Four Mile, Jl (Kngt); Olivera, Je, *Ds* (Kngt); Bear Mt., Je, *Schott* (Kngt). Breeds on *Cornus stolonifera*, *C. paniculata*, and cultivated pear.
- L. (*Neolygus*) *confusus* Kngt. Cranberry L., Jl-Aug, *Drk*, *Htly*, "white birch" (Kngt).
- L. (*Neolygus*) *fagi* Kngt. Cranberry L., Je-Aug, *Drk*, *Htly* (Kngt); Honeoye Falls, Je (Kngt); Batavia, Jl (Kngt); Conesus L., Je (Kngt); Wyoming, Je (Kngt); McLean, Ringwood, Ithaca, type locality, Jl (Kngt); Enfield Glen, Aug, *Buys* (Kngt); Four Mile, Jl (Kngt); Hartsdale, Jl, White Plains, Je-Jl, *Bno* (Kngt). Breeds on *Fagus grandifolia* and perhaps *Betula lutea*.
- L. (*Neolygus*) *geneseensis* Kngt. Batavia, Je (Kngt); Conesus L., Jl (Kngt), type locality; Portageville, Je (Kngt); Ithaca, Je-Jl (Kngt); Hartsdale, White Plains, Je, *Bno* (Kngt); **LI**: Wading R., Je, Yaphank, Jl, *Ds* (Kngt). Breeds on *Quercus alba*.
- L. (*Neolygus*) *hirticulus* VanD. Ausable R., L. Placid, Aug (EPV); Cranberry L., Jl-Aug, *Drk*, *Htly* (Kngt); Wanakena, Aug, *Drk* (Kngt); Batavia, Je-Jl (Kngt); Boston, Jl-Aug, Hamburg, Jl, Lancaster, Aug (EPV); Conesus L., Je, Portageville, Aug, Wyoming, Je (Kngt); Salamanca, Jl (EPV); Four Mile, Ithaca, McLean, Jl (Kngt); Stanford, Aug (Kngt); Ashland, Aug, *Frost*, Olivera, Je, *Ds* (Kngt); Grand View, Je, *Brb* (Kngt); **LI**: Cold Sp. Harb., Jl, *Bno* (Kngt). Breeds sparingly on several plants; reared from chestnut, beech, and woodbine (Kngt); reared from yellow birch (Drk).
- L. (*Neolygus*) *inconspicuus* Kngt. Honeoye Falls, Je (Kngt); Batavia, Je-Jl (Kngt), type locality; Conesus L., Je (Kngt); Ithaca, Je, Ringwood, Jl (Kngt); White Plains, Jl, *Bno* (Kngt). *Vitis rotundifolia*.
- L. (*Neolygus*) *invitus* Say. Honeoye Falls, Batavia, Je (Kngt); Conesus L., Je (Kngt); Buffalo, Niagara Falls, Colden, Je (EPV); Hamburg, Je-Jl (EPV); Portageville, Wyoming Co, Je (Kngt); Salamanca, Jl, Gowanda, Aug, *EPV* (Kngt); Ithaca, Je-Jl (Kngt); White Plains, Je-Jl, *Bno* (Kngt). *Ulmus americana*.

- L. (**Neolygus**) **johnsoni** Kngt. Batavia, Jl (Kngt); Conesus L., (Kngt); McLean, Jl, Ithaca, Je, Ringwood, Je (Kngt); Olivera, Je-Jl, *Ds*, *Shoe* (Kngt); Bear Mt., Je, *Schott*, White Plains, Je, *Parsh* (Kngt). *Carpinus caroliniana*.
- L. (**Neolygus**) **laureae** Kngt. Four Mile, Jl (Kngt), type locality; Bear Mt., Je, *Schott* (Kngt); West Pt., Je, *Ds* (Kngt). Mountain laurel (*Kalmia latifolia*).
- L. (**Neolygus**) **neglectus** Kngt. LI: Cold Sp. Harb., Jl, *Bno* (Kngt). *Carpinus caroliniana*.
- L. (**Neolygus**) **omnivagus** Kngt. Conesus L., Je, Batavia, Je-Aug (Kngt); Portageville, Je (Kngt); Ithaca, Je-Jl (Kngt), type locality; Four Mile, Jl (Kngt); Bear Mt., Jl, *Schott*; Ft. Montgomery, Je, *Schott* (Kngt); White Plains, Je, *Bno*, Hartsdale, Jl (Kngt); LI: Bay Shore, Jl, *Ols* (Kngt); Wading R., Je, *Ds*, Cold Sp. Harb., Jl-Aug, *Parsh* (Kngt). *Quercus alba*, *Q. rubra*, *Q. coccinea*, and probably other oaks; reared from Cornus, Castanea, and Viburnum.
- L. (**Neolygus**) **ostryae** Kngt. Cranberry L., Aug, *Drk* (Kngt); Honeoye Falls, Conesus L., Je (Kngt); Batavia, Je (Kngt), type locality; Portageville, Je-Aug (Kngt); Gowanda, Aug, *EPV* (Kngt); Ithaca, Je-Jl, Four Mile, Jl (Kngt); McLean, Jl, *Kngt*, Sep, *Sib* (Kngt); Stamford, Aug, *EPV* (Kngt). *Ostrya virginiana*.
- L. (**Neolygus**) **parrotti** Kngt. Geneva, Je, *Parrott* (Kngt), type locality. *Viburnum sterilis* and *V. opulus*.
- L. (**Neolygus**) **parshleyi** Kngt. Cranberry L., Jl, *Drk* (Kngt).
- L. (**Neolygus**) **quercalbae** Kngt. Batavia, Jl (Kngt); Conesus L., Portageville, Je (Kngt); Ithaca, Je-Jl (Kngt), type locality; Four Mile, Jl (Kngt); White Plains, Je, *Bno* (Kngt); SI, Je, *Ds* (Kngt). *Quercus alba*.
- L. (**Neolygus**) **semivittatus** Kngt. Conesus L., Portageville, Je (Kngt); Ithaca, Je (Kngt), type locality; LI: Pinelawn, Je, *Ols* (Kngt). *Quercus alba*.
- L. (**Neolygus**) **tiliae** Kngt. Batavia, Je-Jl (Kngt); Conesus L., Jl, Byron, Je, Portageville, Je (Kngt), type locality; Hamburg, Spring Brook, Je-Jl, *EPV* (Kngt); Wyoming, Je (Kngt); Honeoye Falls, Je (Kngt); Elma, Aug (EPV); Four Mile, Jl, McLean, Jl, Ithaca, Je (Kngt). *Tilia americana*.
- L. (**Neolygus**) **univittatus** Kngt. Portageville, Je (Kngt), type locality; Ithaca, Je-Jl, *Kngt&Wellhouse* (Kngt); Ringwood, Je (Kngt). *Crataegus*.
- L. (**Neolygus**) **viburni** Kngt. Sodus Pt., Aug, *Buys* (Kngt); Batavia, Je-Jl (Kngt), type locality; Portageville, Je, Aug (Kngt); Wyoming Co, Jl (Kngt); Ithaca, Je (Kngt). *Viburnum lentago*.
- L. (**Neolygus**) **vitticollis** Reut. Honeoye Falls, Je (Kngt); Batavia, Je (Kngt); Colden, Jl, E. Aurora, Je, Gowanda, Aug (EPV); Four Mile, Jl (Kngt); McLean, Je-Jl, *MacG* (Kngt); Ithaca, Jl, Ringwood, Je (Kngt); White Plains, Je, *Bno* (Kngt); LI: Bay Shore, Jl, *Ols*, Orient, Jl, *Ds* (Kngt). *Acer saccharum* and *A. rubrum*.

## DICHROOSCYTUS Fieber

- D. **elegans** Uhl. Batavia, Je (Kngt); Buffalo, Je (EPV); Portageville, Je (Kngt); Taughannock, Jl (Kngt); White Plains, *Bno* (Kngt); Mosholu (Heid). Red cedar (*Juniperus virginiana*) and white cedar (*Thuja occidentalis*).
- D. **rufipennis** Fall. Ithaca, Je-Jl (Kngt). *Pinus sylvestris*.

- D. suspectus** Reut. Wilmington, Jl, *Ds* (Kngt); Ithaca, Je (Kngt). *Pinus resinosa*.
- D. viridicans** Kngt. Taughannock, Jl (Kngt); Saugerties, Jl, *Brb* (Kngt); White Plains, Jl, *Bno* (Kngt), type locality; **LI**: Lloyds Neck, Jl, *Ds* (Kngt); Cold Sp. Harb., Jl, *Parsh*, *Bno* (Kngt). *Juniperus virginiana*.

## POLYMERUS Hahn

- P. basalis** Reut. Batavia, Je-Sep (Kngt); Buffalo, Je-Sep (EPV); Wyoming Co, Je (Kngt); Ithaca, Jl-Aug (Kngt-CU); McLean, Jl, *Sib* (Kngt); Ithaca, Four Mile, Jl (Kngt); Enfield Glen, Aug, *Buy*s (Kngt); White Plains, Je, *Bno* (Kngt); Mosholu (Heid); Central Pk., NYC, Sep, *Ds* (Kngt); **LI**, Sep, *Ds* (Kngt). Dog fennel (*Anthemis*).
- P. fulvipes** Kngt. Four Mile, Jl (Kngt), type locality; Grand View, Je, *Brb* (Kngt); **LI**: Bay Shore, Jl, *Ols*, Pinelawn, Je, *Ds* (Kngt).
- P. opacus** Kngt. Wanakena, Jl-Aug, *Drk* (Kngt); McLean Bogs, Jl (Kngt), type locality. *Aster umbellatus*.
- P. punctipes** Kngt. Cranberry L., Jl, *Drk* (Kngt); Four Mile, Jl (Kngt), type locality. *Lysimachia quadrifolia*.
- P. unifasciatus** var. *lateralis* Hahn. Wilmington, Aug (EPV); Wanakena, Cranberry L., Jl, *Drk* (Kngt). *Galium boreale*.
- P. brevirostris** Kngt. Lancaster, Jl, *EPV* (Kngt).
- P. venaticus** Uhl. Cranberry L., Je, Wanakena, Jl-Aug, *Drk* (Kngt); Niagara Falls, Aug, Buffalo, Je, Elma, Je, Hamburg, Jl, Lancaster, Je (EPV); Batavia, Je-Aug (Kngt); Wyoming, Je (Kngt); Ithaca, Je-Jl, Four Mile, Jl (Kngt); White Plains, Je-Jl, *Bno* (Kngt); **SI**, Je, *Ds* (Kngt); **LI**: Maspeth, Je, *Ols* (Kngt). *Solidago altissima*.

## POECILOCAPSUS Reuter

- P. lineatus** Fab. Cranberry L., Jl, Wanakena, Jl, *Drk* (Kngt); L. Placid, Aug (EPV); Fairmount (Sling); Walworth, *Yeomans* (Felt); Wayne Co, Jl (Kngt); Batavia, Je-Jl (Kngt, Lint); Buffalo, Je (EPV, Sling); Portageville, Je (Kngt); Hamburg, Je-Jl (EPV); S. Byron (Lint); Geneva (Sling); Otto, Jl, *Comst* (Uhl); Peruville, Utica, Salem, Albany (Sling); Ithaca, Je-Jl (Sling, Kngt-CU); Enfield Glen, Aug, *Buy*s (Kngt); Clayville, Je, *Buy*s (Kngt); Four Mile, Jl (Kngt); Oliverea, Je, *Ds* (Kngt); Hartsdale, Je, White Plains, Je, *Bno* (Kngt); Mosholu (Heid); **SI**, Je, *Ds* (Kngt); **LI**: Wyandanch, Jl, *Ds* (Kngt). A large number of herbaceous plants, but especially *Rumex*; occasionally a pest on currant bushes.

## HORCIAS Distant

- H. dislocatus** Say. Mt. Whiteface, Jl, *Ds* (Kngt); Cranberry L., Jl, *Drk* (Kngt); Conesus L., Je (Kngt); Portageville, Je (Kngt); McLean, Jl, Ithaca, Je, Four Mile, Jl (Kngt); Catskills, Aug, *Ds* (Kngt); Valhalla, May, *Bno* (Kngt); **LI**, Jl, *Ds* (Kngt). *Smilacina racemosa*, *Geranium maculatum*, *Scrophularia leporella*, and occasionally *Caulophyllum thalictroides*.
- H. dislocatus** var. *affinis* Reut. Cranberry L., Wanakena, Aug, *Drk* (Kngt); Honeoye Falls, Je (Kngt); Batavia, Je-Jl (Kngt); Conesus L., Je (Kngt); Buffalo, Colden, Je, Hamburg, Jl (EPV); Portageville, Je (Kngt); Four Mile, Jl, McLean, Jl (Kngt); Ithaca, Je-Jl (Kngt-CU); Sodus Pt., Je, *Buy*s (Kngt).



- H. dislocatus** var. **coccineus** Emmons. Niagara Falls, Je (EPV); Batavia, Je-Jl (Kngt); Ithaca, Je (Kngt).
- H. dislocatus** var. **flavidus** Kngt. Batavia, Jl, Portageville, Je (Kngt); Four Mile, Jl (Kngt), type locality.
- H. dislocatus** var. **goniphorus** Say. Fulton Co, *Alex* (EPV); Niagara Falls, Colden, Hamburg, Je, Buffalo, Jl (EPV); Sodus Pt., Je, *Buys* (Kngt); Batavia, Je-Jl (Kngt); Portageville, Wyoming, Je (Kngt); Four Mile, Jl (Kngt); Ithaca, Je, *Ruckes* (Fbs, Kngt-CU); Olivera, Je, *Ds* (Kngt); White Plains, Jl, *Bno* (Kngt); Mosholu (Heid); **SI**: Arrochar, Je, *Ds* (Kngt).
- H. dislocatus** var. **limbatellus** Wlk. Wanakena, Aug, *Drk* (Kngt); Batavia, Je-Jl (Kngt); Portageville, Wyoming, Je (Kngt); Four Mile, McLean, Jl (Kngt).
- H. dislocatus** var. **marginalis** Reut. Gloversville, Je, *Alex* (EPV); Batavia, Jl (Kngt); Hamburg, Jl, Buffalo, Je-Jl (EPV); Portageville, Je (Kngt); Ithaca, Je (Kngt); Four Mile, Ringwood, Jl (Kngt); Olivera, Je, *Ds* (Kngt).
- H. dislocatus** var. **nigriclavus** Kngt. Batavia, Je (Kngt); Portageville, Je (Kngt); Four Mile, Jl (Kngt), type locality; Ithaca, Je (Kngt); Ringwood, Jl (Kngt); Bear Mt., Jl, *Schott* (Kngt).
- H. dislocatus** var. **nigritus** Reut. Portageville, Wyoming, Je (Kngt); Sodus Pt., Je, *Buys* (Kngt); Batavia, Je-Jl (Kngt); Four Mile, Jl (Kngt); Ithaca, McLean, Jl (Kngt); Catskills, Olivera, Je, *Ds* (Kngt); Pine L., Je, *Ds* (Kngt); Mosholu (Heid).
- H. dislocatus** var. **pallipes** VanD. Niagara Falls, Hamburg, Je (EPV); Batavia, Je-Jl, Portageville, Je (Kngt); Four Mile, Jl (Kngt).
- H. dislocatus** var. **scutatus** Kngt. Four Mile, Jl (Kngt), type locality.

## ADELPHOCORIS Reuter

- A. rapidus** Say. Adirondacks (EPV); Mt. Whiteface, Aug (Kngt); Cranberry L., Jl, Wanakena, Aug, *Drk* (Kngt); Fulton Co, *Alex* (EPV); Buffalo, Je (EPV); Sodus Pt., Aug, *Buys* (Kngt); Batavia, Je-Sep (Kngt); Wyoming, Sep, Portageville, Je (Kngt); Otto, Four Mile, Jl (Kngt); Enfield Glen, Aug, *Buys* (Kngt); Ithaca, Jl-Aug, *Comst* (Uhl); White Plains, Je-Jl, *Bno* (Kngt); **LI**: Gardiners L., Je, *Ds* (Kngt); Schuyler L., Aug, *Buys* (Kngt); Rockaway, Je (Wood); Yaphank, Jl, *Ds* (Kngt).

## CALOCORIS Fieber

- C. norvegicus** Gmelin. White Plains, Je, Sep, *Bno* (Kngt); Mosholu (Heid); **LI**: Maspeth, Je, *Ols* (Kngt). Grasses; also abundant on daisy heads (*Bno*).

## STENOTUS Jakovlev

- S. binotatus** Fab. Wanakena, Cranberry L., Jl-Aug, *Drk* (Kngt); Batavia, Je-Jl, Portageville, Je (Kngt); Four Mile, Jl (Kngt); Ithaca, Je (Kngt); White Plains, Je, *Bno* (Kngt); Mosholu (Heid); **LI**, Jl, *Ds* (Kngt). Breeds on *Dactylus glomerata*.

## PARACALOCORIS Distant

- P. scrupeus** Say var. typ. Niagara Falls, Jl, Lockport, Je, Hamburg, Jl (EPV); Batavia, Je-Jl, Portageville, Je (Kngt); Ringwood, Jl (Kngt); Pine L., (Kngt-Brooklyn Museum); West Pt. (Kngt-Brooklyn Museum); **LI**: Bellport (Brooklyn Museum). *Vitis* spp.



- P. scrupeus* var. *bidens* McAtee. Batavia, Je (Kngt); Ithaca, Je-Jl, Ringwood, Je (Kngt); Bear Mt., Jl, *Schott* (Kngt); Pine I., Je, *Ds* (Kngt).
- P. scrupeus* var. *cunealis* McAtee. Rochester Jct., Je, *Leon* (Kngt); Batavia, Je-Jl (Kngt), type locality; Ithaca, Je (Kngt).
- P. scrupeus* var. *lucidus* McAtee. Rochester Jct., Je, *Leon* (Kngt); Batavia, Jl (Kngt), type locality.
- P. scrupeus* var. *nubilus* McAtee. Portageville, Je (Kngt), type locality.
- P. scrupeus* var. *par* McAtee. Rochester Jct., Je, *Leon* (Kngt); Batavia, Je (Kngt); Portageville, Je (Kngt); Ithaca, Je (Kngt), type locality.
- P. scrupeus* var. *rubidus* McAtee. Batavia, Je (Kngt), type locality; Stony I., Je (Kngt).
- P. scrupeus* var. *sordidus* McAtee. Batavia, Je (Kngt), type locality.
- P. scrupeus* var. *triops* McAtee. Pine I., Je, *Ds* (Kngt), type locality; **SI**, Je, *Ds* (Kngt).
- P. scrupeus* var. *varius* McAtee. Rochester Jct., Je, *Leon* (Kngt); Honeoye Falls, Je (Kngt); Batavia, Je (Kngt), type locality.
- P. hawleyi* Kngt. Waterville, Jl-Sep, *Hawl* (Kngt), type locality; Hamburg, Jl-Aug (EPV). Cultivated hop.
- P. hawleyi* var. *ancora* Kngt. Syracuse, Jl, *Basinger*, Waterville, Jl-Aug, *Hawl* (Kngt).
- P. hawleyi* var. *fissus* McAtee. Waterville, Jl-Aug, *Hawl* (Kngt); **SI**, *Ds* (Kngt).
- P. hawleyi* var. *pallidulus* McAtee. Rochester Jct., Jl, *Leon* (Kngt); Batavia, Je-Jl (Kngt), type locality. Apple.
- P. colon* Say. **SI**, Je, *Ds* (Kngt).
- P. colon* var. *castus* McAtee. Haverstraw, Jl (McAtee); **SI**, Aug, *Ds* (Kngt).
- P. colon* var. *colonus* McAtee. Lancaster, Aug, *EPV* (Kngt); Haverstraw, Jl (McAtee); **LI**: Wyandanch, Aug, *Ols* (Kngt); Cold Sp. Harb., Aug, *Parsh*, *Riskel* (Kngt).
- P. multisignatus* Reut. **LI**: Wading R., Je, *Ds* (Kngt).

## GARGANUS Stål

- G. fusiformis* Say. Cranberry L., Aug, *Drk* (Kngt); Batavia, Jl (Kngt); Buffalo, Jl-Aug, Boston, Aug, Colden, Hamburg, Jl (EPV); Gowanda, Aug (EPV); Ithaca, Jl (Kngt); White Plains, Je-Jl, *Bno* (Kngt); **LI**: Wading R., Jl, *Ds* (Kngt). *Tussilago farfara*.

## NEUROCOLPUS Reuter

- N. nubilus* Say. L. Placid, Aug (EPV); Cranberry L., Jl, *Drk* (Kngt); Fulton Co, *Alex* (EPV); Batavia, Je-Aug (Kngt); Buffalo, Jl-Aug, Colden, Jl, Lancaster, Aug (EPV); Portageville, Aug (Kngt); Gowanda, Aug (EPV); Ithaca, Je-Aug (Ruckes, Kngt-CU); Enfield Glen, Aug, *Buys* (Kngt); Catskills, Aug, *Ds* (Kngt); Ft. Montgomery, Jl, *Schott* (Kngt); Palisades, Mosholu (Heid); NYC, Je (Wood); **SI**: Eltingville, Jl, *Ds* (Kngt); **LI**: Bay Shore, Jl, Maspeth, Jl, *Ols* (Kngt); Hempstead, Sep, *Ols* (Kngt); Montauk, Aug, *Ds* (Kngt). *Cephalanthus occidentalis*, *Rhus* sp., and probably other plants.

## PHYTCORIS Fallén

- P. angustulus* Reut. Ithaca, Taughannock, Jl (Kngt); McLean, Sep, *Sib* (Kngt); Hartsdale, Jl, *Bno* (Kngt); White Plains, Je, *Bno* (Kngt). *Tsuga canadensis*.
- P. antennalis* Reut. **SI**, Sep, *Ds* (Kngt); **LI**: Central Pk., Sep, *Ds*, Cold Sp. Harb., Jl, *Parsh* (Kngt); Wyandanch, Aug, Bay Shore, Jl, *Ols* (Kngt).
- P. borealis* Kngt. Jamestown, Aug, *EPV* (Kngt).
- P. brevifurcatus* Kngt. Batavia, Jl-Aug (Kngt), type locality.
- P. buenoi* Kngt. White Plains, Jl, *Bno* (Kngt), type locality; **LI**: Cold Sp. Harb., Jl, *Parsh* (Kngt).
- P. caryae* Kngt. Batavia, Jl (Kngt), type locality. *Carya*.
- P. confluens* Reut. Batavia, Aug (Kngt); Forest Hill, Sep, *Ols* (Kngt); White Plains, Jl, *Bno* (Kngt); **SI**: Arrochar, Jl, *Ds* (Kngt); **LI**: Flushing, Sep, *Ols* (Kngt); Port Washington, Sep, *Ols* (Kngt); Wading R., Je, *Ds* (Kngt). Hickory (*Carya*).
- P. conspurcatus* Kngt. Batavia, Aug (Kngt), type locality; Ithaca, Sep (Kngt); White Plains, Jl, *Bno* (Kngt); **LI**: Wyandanch, Aug, *Ols* (Kngt). Bark of *Tilia* and *Acer*.
- P. corticevivens* Kngt. Waterville, Jl, *Hawl* (Kngt); Batavia, Je-Jl (Kngt), type locality; Hartsdale, Jl, *Bno* (Kngt); **SI**, Jl, *Ds* (Kngt). Bark of *Acer saccharum*.
- P. cortitectus* Kngt. Cranberry L., Jl, *Drk* (Kngt); Batavia, Jl (Kngt), type locality.
- P. davisii* Kngt. **LI**: Central Pk., Jl, *Ds* (Kngt).
- P. depictus* Kngt. Batavia, Aug (Kngt), type locality. *Quercus macrocarpa*.
- P. diversus* Kngt. Madison Barracks, Aug (Kngt), type locality; Mt. Whiteface, Aug (Kngt); Ithaca, Jl, Sep (Kngt); **LI**: Cold Sp. Harb., Aug, *Parsh* (Kngt). *Pinus strobus*.
- P. erectus* VanD. Wanakena, Aug, *Drk* (Kngt); Cranberry L., Jl-Aug, *Drk*, *Htly* (Kngt); Cattaraugus Co, Aug (Kngt); Salamanca, Jl (EPV), type locality; McLean, Aug, *Sib* (Kngt).
- P. eximius* Reut. Cranberry L., Aug, *Drk*, *Htly* (Kngt); Batavia, Jl-Aug (Kngt); Portageville, Aug (Kngt); Ithaca, McLean, Jl (Kngt); **LI**: Cold Sp. Harb., Jl-Aug, *Parsh*, *Bno* (Kngt); Yaphank, Jl-Aug, Smithtown, Aug, *Ds* (Kngt); Wyandanch, Aug, *Ols* (Kngt).
- P. fulvus* Kngt. Cranberry L., Wanakena, Aug, *Drk* (Kngt); Ithaca, Jl (Kngt), type locality.
- P. fumatus* Reut. Ft. Montgomery, Je, *Schott* (Kngt); **LI**: Bay Shore, Jl, *Ols* (Kngt); Wading R., Je, Yaphank, Jl, *Ds* (Kngt).
- P. infuscatus* Reut. Niagara Falls, Boston, Aug (EPV); Batavia, Jl (Kngt); Conesus L., Jl (Kngt); Gowanda, Aug (EPV); Ithaca, Jl (Kngt); White Plains, Jl, *Bno* (Kngt). *Carya*.
- P. lacunosus* Kngt. Cranberry L., Aug, *Drk* (Kngt); Batavia, Jl (Kngt); McLean, Jl (Kngt), type locality.
- P. lasiomerus* Reut. Cranberry L., Aug, *Drk*, *Htly* (Kngt); Long L., *Horv* (Reut); Wanakena, Aug, *Drk* (Kngt); Fulton Co, *Alex* (Kngt); Cold R., *Horv* (Reut); Honeoye Falls, Aug (Kngt); Batavia, Jl-Aug (Kngt).
- P. minutulus* Reut. **LI**: Cold Sp. Harb., Aug, *Parsh* (Kngt); Maspeth, Sep, *Ols* (Kngt).
- P. neglectus* Kngt. Batavia, Je-Sep (Kngt), type locality; Wyoming Co, Je (Kngt); Four Mile, Jl (Kngt); Ithaca, Je-Jl (Kngt); Greene Co, Jl (Kngt);

- Ft. Montgomery, Sep, *Schott* (Kngt); White Plains, Aug, *Bno* (Kngt); **LI**: Amagansett, Je, *Ds* (Kngt). Apple trees.
- P. obtectus** Kngt. Honeoye Falls, Je (Kngt), type locality.
- P. olseni** Kngt. **LI**: Bay Shore, Yaphank, Jl, *Ols* (Kngt); Wyandanch, Aug, *Ols* (Kngt); Cold Sp. Harb., Jl, *Parsh* (Kngt).
- P. onustus** VanD. Mt. Whiteface, Aug (Kngt); Batavia, Jl (Kngt); Portageville, Aug (Kngt); Boston, Aug (EPV); Salamanca, Jl (EPV), type locality; Four Mile, Jl (Kngt); Ithaca, Jl (Kngt). Bark of hickory trees.
- P. pallidicornis** Reut. Mt. Whiteface, Aug (Kngt); Fulton Co, Sep, *Alex* (EPV); Cranberry L., Wanakena, Aug, *Drk* (Kngt).
- P. pinicola** Kngt. Batavia, Jl (Kngt), type locality; Taughannock, Jl (Kngt); **LI**: Bay Shore, Jl, *Ols* (Kngt); Promised Land, Sep, *Ds* (Kngt); Cold Sp. Harb., Aug, *Parsh* (Kngt); Wyandanch, Jl, *Ds* (Kngt); Amagansett, Sep, *Ds*, Coram, *Ds* (Kngt). *Pinus sylvestris*, *P. resinosa*.
- P. puella** Reut. "NY" (Reut); Ithaca, Sep (Kngt); White Plains, Je, *Bno* (Kngt); **LI**: Yaphank, Jl, *Ds*, *Ols* (Kngt); Bay Shore, Aug-Sep, *Ols* (Kngt); Cold Sp. Harb., Jl, *Parsh* (Kngt); Wyandanch, Aug, *Ols* (Kngt).
- P. quercicola** Kngt. Batavia, Aug (Kngt), type locality; **LI**: Fire I., Aug, *Ds* (Kngt). *Quercus macrocarpa*.
- P. rubropictus** Kngt. Wanakena, Aug, *Drk* (Kngt), type locality.
- P. salicis** Kngt. Cranberry L., Jl-Aug, *Drk*, *Htlv* (Kngt); Wanakena, Jl, *Drk* (Kngt); Honeoye Falls, Aug (Kngt); Batavia, Jl-Aug (Kngt), type locality; Ithaca, Je-Jl, McLean, Jl (Kngt); Ringwood, Jl (Kngt); W. Nyack, Aug, *Ols* (Kngt); **LI**: Cold Sp. Harb., Aug, *Bno* (Kngt); Orient, Jl, *Ds* (Kngt). Salix.
- P. spicatus** Kngt. Batavia, Jl-Aug (Kngt), type locality; Four Mile, Jl (Kngt).
- P. sulcatus** Kngt. Madison Barracks, Aug (Kngt); Batavia, Aug (Kngt), type locality; Ithaca, Jl (Kngt); **SI**, Jl, *Ds* (Kngt).
- P. tibialis** Reut. Elma, Aug, Hamburg, Jl-Sep, Lancaster, Aug, Colden, Aug, Buffalo, Jl-Aug (EPV); Batavia, Jl-Aug (Kngt); Portageville, Aug (Kngt); Salamanca, Jl (EPV); Ithaca, Jl, *Bno* (Kngt-CU); McLean, Jl-Aug, *Sib* (Kngt); Saugerties, Jl-Aug, *Brb* (Kngt); White Plains, Jl-Sep, *Bno* (Kngt); **LI**: Riverhead, Aug, *Ds* (Kngt); Flushing, Aug, *Ds* (Kngt); Cold Sp. Harb., Jl, *Butler*, *Bno*, *Parsh* (Kngt).
- P. tuberculatus** Kngt. Four Mile, Jl (Kngt), type locality; Pine I., Je, *Ds* (Kngt).
- P. uniformis** Kngt. **LI**: Wyandanch, Aug, *Ols* (Kngt), type locality; Bear Mt., Aug, *Schott* (Kngt); Yaphank, Aug, *Ds*, Cold Sp. Harb., Aug, *Bno* (Kngt).
- P. venustus** Kngt. Syracuse, Sep, *Drk* (Kngt).
- P. vittatus** Reut. L. Placid, Aug (EPV), type locality; Lewis, Aug (Kngt). *Ribes cynosbati*.

## PARAXENETUS Reuter

- P. guttulatus** Uhl. W. Nyack, Aug, *Bno* (Kngt); **LI**: Cold Sp. Harb., Aug, *Brb* (Kngt); Aqueduct, Jl, *Ds* (Kngt).

## BARBERIELLA Poppius

- B. apicalis** Kngt. **SI**, Jl, *Ds* (Kngt), type locality; **LI**: Central Pk., Aug, *Ds* (Kngt).

FAMILY ISOMETOPIDAE Fieber

Compiled by HARRY H. KNIGHT

CORTICORIS McAtee and Malloch

**C. pulchellus** (Heid.). **LI**: Sea Cliff (Heid).

HEIDEMANNIA Uhler

**H. cixiiformis** Uhler. Batavia, JI, *Kngt.* During July of 1913 and 1914, twenty-seven female specimens were found in scraping rough bark from the trunks of apple trees; the bugs appeared to be associated with psocids under the bark.

FAMILY CRYPTOSTEMATIDAE

(*Dipsocoridae*, *Schisopteridae*)

CERATOCOMBUS Signoret

— **C. (Xylonanmus** Reut.) **vagans** McAtee & Mall. Keene Val., Je, *Not* (McAtee & Mall). This species occurs in damp, rotten wood (Brb).

FAMILY HYDROMETRIDAE

Compiled by J. R. DE LA TORRE-BUENO

HYDROMETRA Lamarck

1281 **H. martini** Kirk. Ithaca, May–Aug (Bno, MacG–CU); McLean, JI 14 (Bno); White Plains, Mar–Aug, in great abundance (Bno); Van Cort. Pk., Ap, JI (Bno); **SI**, May, *Bno* & *Ds* (Bno), Ap 11 in plowed field, *Ds* (Bno); **LI**: Cold Sp. Harb., JI (Bno).

FAMILY GERRIDAE

Compiled by J. R. DE LA TORRE-BUENO

SUBFAMILY GERRINAE

GERRIS Fabricius

1283 **G. remigis** Say. Mt. Whiteface, Aug (EPV); Axton, Je (M&H); Old Forge (Bno); Cranberry L. (O&D); Caledonia Cr., Dec (Lint); Colden, Gowanda, JI–Aug (EPV); Ithaca, JI–Aug (CU); Fly Cr., Aug (*Bno*); White Plains, Scarsdale, Port Chester, Feb–late Nov (*Bno*); Moshulu, Van Cort. Pk., Central Pk., NYC, Ap–Je (*Bno*); **SI**, Feb–Mar (Bno), JI (*Ols*); **LI**: Flushing, Mar, Hempstead, JI, (*Ols*); Cold Sp. Harb., JI, in brackish stream (Bno); Yaphank, Sep, *Eng* (Bno).

1285 **G. conformis** Uhl. Ithaca, Aug (CU); Croton-on-Hudson, Aug (*Ols*); White Plains, Je–JI (*Bno*); Mamaroneck, May (*Bno*); **LI**: Cold Sp. Harb., JI, in brackish stream (*Bno*).

1288 **G. marginatus** Say. Old Forge, Je–JI (CU); Cranberry L. (O&D); Fulton, Je, *Mary Hill* (CU); Otto (CU); Buffalo, Colden, Je–Sep (EPV); Ithaca, May–Sep (CU); Carmel, Aug (Bno); White Plains, Mar and throughout the year, adults in spring and fall (*Bno*); Van Cort. Pk., Central Pk., NYC, Mar–Oct (Bno); **SI**, Mar–Sep (*Bno*, *Ols*); **LI**: Maspeth, Flushing, Newtown Hgts., Hempstead, Lynbrook, Mar–Nov (*Ols*); Cold Sp. Harb., JI, in brackish stream (Bno); Yaphank, Sep, *Eng* (Bno).

- 1288½ **G. argenticollis** Parsh. Cranberry L. (O&D); White Plains, Mar-May (Bno); Pleasantville, Sep (Bno).  
 1289 **G. buenoi** Kirk. Cranberry L. (O&D); Ithaca, Aug (CU); McLean, J1, *Kngt* (Bno); White Plains, Mar-Nov, adults in spring and fall, nymphs in early summer (Bno); Van Cort. Pk., Oct (Bno); **LI**: Queens, Newtown Hgts., Yaphank, Mar-J1 (*Ols*); Cold Sp. Harb., J1 (Bno).  
 1290 **G. canaliculatus** Say. Putnam Co, Sep (Bno); White Plains, May-Nov (Bno); Van Cort, Pk., Central Pk., NYC, Mar-Oct (Bno); **SI**, May (Bno); **LI**: Rockaway Beach, Je (*Ols*); Cold Sp. Harb., J1 (Bno).  
 — **G. insperatus** D. & H. **LI**: Cold Sp. Harb., *Brb* (Drk&Hottes).

#### LIMNOPORUS Stål

- 1291 **L. rufoscutellatus** Latr. Old Forge, Aug (CU); Buffalo, Hamburg, J1 (EPV); Ithaca, J1-Sep (Bno); Enfield, Sep (CU); Putnam Co, Sep (Bno); White Plains, May-J1 and off and on throughout the year (Bno); Van Cort. Pk., Je (Bno); **LI**: Jamaica, Feb, *Dow* (Bno).

#### SUBFAMILY HALOBATINAE

##### METROBATES Uhler

- 1295 **M. hesperius** Uhl. Franklin Co (EPV); Fulton, *Alex* (Bno); Cranberry L. (O&D); Ithaca, J1-Aug (CU); L. Mahopac, both adults and nymphs in enormous numbers, Sep 1 (Bno).

##### TREPOBATES Uhler

- 1296 **T. pictus** H.-S. Cranberry L. (O&D); Hamburg, J1 (EPV); Ithaca, Je-Sep (CU); L. Mahopac, Sep (Bno); Carmel, Aug (Bno); White Plains, Oct, adults generally found in late summer and early fall (Bno); **LI**: Cold Sp. Harb., J1 (Bno); Yaphank, Sep, *Eng* (Bno).

#### RHEUMATOBATES Bergroth

- 1297 **R. rileyi** Bergr. Cranberry L. (O&D); Ithaca, J1-Aug (CU); White Plains, Aug-Oct (Bno); **LI**: Prospect Pk., Brooklyn, Aug, *Ds* (*Ols*); High Hill, Aug (Bno); Cold Sp. Harb., J1, in brackish stream (Bno); Flatbush, *Zab* (Heid); Yaphank, Sep (Bno, *Ols*).

#### FAMILY VELIIDAE

Compiled by J. R. DE LA TORRE-BUENO

##### MICROVELIA Westwood

- 1303 **M. borealis** Bno. Cranberry L. (O&D); Carmel, Aug (Bno); Tarrytown, Je (Bno); White Plains, throughout the year (Bno); **SI**, May (Bno), Aug (*Ols*); **LI**: Cold Sp. Harb., J1 (Bno).  
 1304 **M. albonotata** Champ. Fly Cr., Cooperstown, Aug (Bno); Valhalla, Oct, Armonk, Je (Bno); White Plains, May, winged form, Sep-Oct (Bno); **LI**: Cold Sp. Harb., J1 (Bno).  
 1306½ **M. fontinalis** Bno. White Plains, Mar, May, Sep, Dec, but most abundant in spring in woodlands (Bno).  
 — **M. buenoi** Drk. Cranberry L. (O&D); White Plains, May-Sep, Feb 22, from among leaves at bottom of a pond, in great abundance on Mar 11, Nov 4, sluggish (Bno).



- 1307 **M. americana** Uhl. Cranberry L. (O&D); Adirondacks (*EPV*); Colden, Pipe Cr., Hamburg, E. Aurora, May-Aug (*EPV*); Fly Cr., Otsego Co, Aug (Bno); Tarrytown, Je, White Plains, the commonest species, Aug, Scarsdale, Sep, Port Chester, Aug, Armonk, Je (Bno); Bronx, Central Pk., NYC, Mar, Sep (Bno); **SI**, Mar (Bno); **LI**: Flushing, North Beach I., Yaphank, Mar-Oct (Bno, Ols).
- **M. heinei** Drk. White Plains, May-Oct (Bno).

## RHAGOVELIA Mayr

- 1309 **R. obesa** Uhl. Ausable R., Aug (*EPV*); L. Placid, Aug (*EPV*); Cranberry L. (O&D); Niagara Falls, Colden, Hamburg, Jl-Aug (*EPV*); Ithaca, Jl-Aug (CU); Fly Cr., Otsego Co, Aug (Bno); Tarrytown, White Plains, Armonk, in favorable situations from early spring to late fall (Bno); **SI**, Aug (Ols); **LI**: Yaphank, Sep (Bno).

## FAMILY SALDIDAE

Compiled by J. R. DE LA TORRE-BUENO

## PENTACORA Reuter

- 1316 **P. signoretii** Guér. Dutchess Co, Je, *Whiting* (Bno); Rye, Jl, nymphs and adults (Bno); **LI**: Long Beach, Aug, *Schott* (Bno, Ols); Freeport, Dow (Ols); Gilgo Beach, *Whiting* (Bno).
- 1317 **P. hirta** Uhl. Rye, Jl-Aug, Mamaroneck, Oct (Bno); **LI**: Gilgo Beach, Jl (Bno); Rockaway Beach, Sep, Cold Sp. Harb., Jl (Bno).
- 1318 **P. ligata** Say. Axton, Je (M&H); Cranberry L., on stones (O&D); Thousand Isls., Sep (CU); Batavia, Sep, Portageville, Je (*Kngt*); shores of L. Erie, Niagara R., Jl-Sep (*EPV*); Buffalo, Oct (*EPV*); Ithaca, Je-Sep (CU); Dutchess Co, *Whiting*, Je (Bno); Ft. Montgomery, Je, *Schott* (Bno); White Plains, Jl, Sep (*Bno*).
- 1334 **P. sphacelata** Uhl. (*Saldula*). Rye, Jl-Aug (*Bno*); **LI**: Gilgo Beach, Jl, *Whiting* (Bno); Babylon, Aug (Bno); Rockaway Beach, Sea Cliff, Bay Shore, Je-Jl (*Ols*).

## SALDA Linnaeus

- 1320 **S. littoralis** L. Pipe Cr., Jl (*EPV*).
- 1321 **S. coriacea** Uhl. (*anthracina* Uhl., teste Bno.). Wallface Mt., Jl, *Not* (Bno); Cranberry L. (O&D); Oakfield, Je, *Not* (Bno); Batavia, Je, *Kngt* (Bno); Hamburg, Jl (*EPV*); Ithaca, Jl (CU); Ft. Hunter, May, *Not* (Bno); White Plains, Jl (*Bno*).

## SALDULA Van Duzee

- 1323 **S. major** Prov. Wallface Mt., Meadow Pond, Essex Co, *Not* (Bno); Cranberry L. (O&D); Fulton Co, *Alex* (Bno); Axton, Je (M&H); Buffalo, Hamburg, Je-Aug (*EPV*); Ithaca, Jl (CU); White Plains, Jl-Sep (Bno); Mt. Kisco, Je (Bno); **LI**: Je (Bno); Rockaway Beach, Je, *Shoe* (Ols); Bay Shore, Je (*Ols*).
- 1324 **S. confluenta** Say. Fulton Co, *Alex* (Bno); Cranberry L. (O&D); Lancaster, Je, *MCV* (*EPV*); White Plains, Je-Sep (Bno); **LI**: Yaphank, Jl, *Ols* (Bno).

- 1325 *S. orbiculata* Uhl. Cranberry L. (O&D); Buffalo (*EPV*); White Plains, Je-Jl (*Bno*); Mosholu, Je-Oct (*Bno*); **LI**: Amityville, Jl (*Bno*).
- 1328 *S. interstitialis* Say (*pallipes* auct. Am.). Axton, Je (M&H); L. Placid, Aug (*EPV*); Cranberry L. (O&D); Batavia, Aug, *Kngt* (*Bno*); Buffalo, Hamburg, Colden, May-Oct (*EPV*); Canisteo, Je, *Not* (*Bno*); Ithaca, Jl-Sep (CU); Carmel, Je-Aug (*Bno*); White Plains, Aug-Oct (*Bno*); Valhalla, Aug (*Bno*); **LI**: Maspeth, Bay Shore, Jl-Nov (*Ols*); Cold Sp. Harb., Jl (*Bno*); Rockaway Beach, *Ols* (*Bno*); Gilgo Beach, Jl (*Bno*); Yaphank, Jl (*Bno*).
- 1329 *S. separata* Uhl. Wallface Mt., L. Tear, Indian Pass, Essex Co, Jl, *Not* (*Bno*); Cranberry L., Jl (O&D); Oakfield, Je, *Not* (*Bno*).
- 1330 *S. reperta* Uhl. Wallface Mt., Jl, *Not* (*Bno*); Cranberry L. (O&D); Buffalo, Colden, Jl-Sep (*EPV*); White Plains, May (*Bno*); Scarsdale, Sep (*Bno*); Mosholu, Mar-Jl (*Bno*); **SI**, Jl (*Bno*).
- 1331 *S. xanthochila* Fieb. Elma, Je (*EPV*).
- 1335 *S. opacula* Zett. Cranberry L., Jl (*Drk*); White Plains, by sifting, Mar-Sep (*Bno*); **LI**: North Beach, Jan 14, *Schott* (*Bno*).
- 1341 *S. saltatoria* L. White Plains, Mar 22-23, active, Dec 2, sifted from drifted leaves about tussocks in swamp (*Bno*); Valhalla, May (*Bno*); **LI**: Huntington, Feb 10, *Schott* (*Bno*).

## MICRACANTHIA Reuter

- 1342 *M. humilis* Say. Wallface Mt., Jl, *Not* (*Bno*); Cranberry L. (O&D); Rochester, Je (CU); Buffalo, Hamburg, Gowanda, May-Aug (*EPV*); Canisteo, Je, *Not* (*Bno*); Nichols, May, *Not* (*Bno*); White Plains, Valhalla, Mt. Kisco, and Tarrytown, throughout spring and summer (*Bno*); W. Nyack, Je (*Ols*); Mosholu, Jl (*Bno*); **LI**: Sea Cliff (CU); Rockaway Beach, Bay Shore, May-Je (*Ols*); Cold Sp. Harb., Jl (*Bno*); Amityville, Gilgo Beach, Jl (*Bno*); Yaphank, Jl (*Bno*), Je (*Ols*).

## LAMPRACANTHIA Reuter

- 1345 *L. crassicornis* Uhl. Ithaca (Hgfd).

## CHARTOSCIRTA Stål

- *C. (Chartolampra) cursitans* Bno. L. Tear, Jl 27, *Not* (*Bno*), type locality.

## FAMILY NOTONECTIDAE

Compiled by J. R. DE LA TORRE-BUENO

## SUBFAMILY NOTONECTINAE

## NOTONECTA Linnaeus

- 1349 *N. irrorata* Uhl. Keene Val. (*Bno*); Buffalo, Colden, Jl (*EPV*); Ithaca, Aug (CU); White Plains, Sep-Nov (*Bno*); Bronx Pk., Van Cort. Pk., Ap-Sep (*Bno*); NYC (Brb); **SI**, Aug-Oct (*Bno*); **LI**: Forest Pk., Nov (*Bno*); Queens, Flushing, Maspeth, Mar-Nov (*Ols*); Cold Sp. Harb., Jl (*Bno*).
- 1350 *N. uhleri* Kirk. Putnam Co, Sep (*Bno*); White Plains, Sep-Nov (*Bno*); Van Cort. Pk., Ap (*Bno*); **LI**: Flushing, Aug-Oct, *Schott* (*Ols*).

- 1351 **N. variabilis** Fieb. Cranberry L., Jl-Aug (O&D); Keene Val., May, *Not* (Bno); Lowville, Je, *Not* (Bno); Ithaca, Aug (Bno); Tivoli, May, *Not* (Bno); White Plains, Ap-Sep, Nov (Bno); Valhalla, May (Bno); Van Cort. Pk., Mar-Nov (Bno); Central Pk., NYC, Ap (*Bno*); **SI**: May (Bno); Concord, Mar, *Ang* (Ols); **LI**: Flushing (Ols), Yaphank, Jl-Sep (Ols, Bno).
- 1352 **N. undulata** Say. Mt. Marcy, Jl, *Not* (Bno); Keene Val., May, *Not* (Bno); L. Placid (*EPV*); Cranberry L., Jl (O&D); Buffalo and vic., Jl-Aug (*EPV*); Ithaca, Je-Nov (CU); Danby, Spencer, Aug, *Comst* (CU); Fly Cr., Otsego Co, Aug (Bno); Albany (NYS); Tivoli, May, *Not* (Bno); Putnam Co (Bno); White Plains, Feb-Dec (Bno); Bronx Pk., Central Pk., NYC, *Bno*, Mar-Sep (Bno); **SI**: Oct-Nov (Bno); Concord, Mar, *Ang* (Ols); **LI**: Forest Pk., Nov (Bno); Flushing, Maspeth, Sep-Nov (Bno); Cold Sp. Harb., Jl (*Bno*); Yaphank (Bno & Eng).
- 1352c **N. undulata** var. **maculata** Fieb. Central Pk., NYC, Mar (Bno); **SI**, in autumn, *Bno&Ds* (Bno).
- 1352e **N. undulata** var. **latona** Kirk. Gowanda, Aug (*EPV*); **SI**, Oct-Nov (Bno).
- 1354 **N. raleighi** Bno. White Plains, Mar 21, at thawed edges of a pond (Bno).
- 1357 **N. insulata** Kby. Mt. Marcy, Jl, *Not* (Bno); Cranberry L., Jl (O&D); Buffalo, Gowanda, Jl-Aug (*EPV*); Albany (Bno); White Plains, Ap-Nov (*Bno*), Mar (Ols); NYC, *Brb* (Bno); **SI**, Sep, *Ds* (*Bno*); **LI**: Maspeth, Mar-Nov (Ols).

## BUENOA Kirkaldy

- 1362 **B. margaritacea** Bno. Adirondacks (*EPV*); Cranberry L. (O&D); White Plains, Feb-Dec (Bno); Pleasantville, Sep 9 (Bno); **LI**: Flushing, Huntington, May-Aug (Ols).
- 1363 **B. platycnemis** Fieb. "NY" (VanD. Cat.).
- 1364 **B. elegans** Fieb. White Plains, Aug-Sep (*Bno*); Pleasantville, Sep-Nov (*Bno*); Van Cort. Pk. (*Bno*); **SI**, Sep (*Bno*); **LI**: Cold Sp. Harb., Jl (*Bno*); Yaphank, Sep, *Eng* (*Bno*).

## SUBFAMILY PLEINAE

## PLEA Leach

- 1365 **P. striola** Fieb. Rochester, *Moore* (*EPV*); Ithaca, May-Jl (CU); White Plains, Oct, etc. (Bno); Hartsdale, Aug (*Bno*); Van Cort. Pk., Ap-Sep (Bno); **SI**, May-Oct, *Ds* (*Bno*); **LI**: Cold Sp. Harb., Jl (*Bno*); Maspeth (*Ols*); Yaphank, Jl (Ols), Sep, *Eng* (*Bno*).

## FAMILY NAUCORIDAE

Compiled by J. R. DE LA TORRE-BUENO

## PELOCORIS Stål

- 1366 **P. femoratus** Pal. de Beauv. Baldwinsville, Sep, *Pettit* (CU); Carmel, Aug (*Bno*); White Plains, May-Nov (*Bno*); Van Cort. Pk., Mar-Jl (*Bno*); **SI**, May-Oct (*Bno*), Je (Ols); **LI**: Maspeth, Je, Rockaway Beach, Nov (*Ols*); Yaphank, Jl (*Ols*); Sep, *Eng* (*Bno*).

## FAMILY NEPIDAE

Compiled by J. R. DE LA TORRE-BUENO

## NEPA Linnaeus

- 1379 **N. apiculata** Uhl. Fulton Co, *Alex* (Bno); Lancaster (*EPV*); Ithaca, Aug (CU); White Plains, Aug 16, nymph (*Bno*); Valhalla, Oct 2 (*Bno*); Mt. Vernon, *Eng* (*Bno*); Yonkers, *Ang* (Ols); Van Cort. Pk., *Ang* (Ols); **SI**, *Ds* (Bno); **LI**: Flushing, *FWinters* (Ols); Cold Sp. Harb., Jl (*Bno*).

## RANATRA Fabricius

- 1381 **R. kirkaldyi** Bno. (*fusca* Am. auctt. not Pal. de Beauv.). E. Aurora, Oct (*EPV*); Ithaca, Jl-Aug (CU); L. Mahopac (*Bno*), type locality; Central Pk., NYC (Bno).
- 1383 **R. americana** Montd. Cranberry L., Jl (O&D); Squaw I., Niagara Falls, Sep (*EPV*); Lancaster (*EPV*); Ithaca, May-Aug (CU); White Plains, from early spring to late fall (Bno); Van Cort. Pk., Central Pk., NYC, Mar (Bno); **LI**: Forest Pk., Nov 7 (*Bno*).
- 1385 **R. protensa** Montd. Ithaca, Nov (CU); Central Pk., NYC (Bno).

## FAMILY BELOSTOMATIDAE

Compiled by J. R. DE LA TORRE-BUENO

## BENACUS Stål

- 1387 **B. griseus** Say. Cranberry L. and vic. (O&D); Buffalo, Hamburg, Ap-Sep (*EPV*); Ithaca, May-Jl (CU); White Plains, May-Sep (Bno); Tarrytown, May (Lint-NYS); NYC, Jl (*Bno*, Ols); **SI**: New Brighton, Mar (Ols); **LI**: Maspeth, Oct (Ols).

## LETHOCERUS Mayr

- 1388 **L. americanus** Leidy. Adirondacks (Felt); Lockport, Jl (Lint-NYS); Buffalo, Hamburg, Ap (*EPV*); Caledonia Cr. (Lint); Johnstown, Ap (NYS); Ithaca, May-Jl (CU); Albany, Ap-Sep (NYS); E. Chatham, Je (Lint-NYS); Kingston (Lint-NYS); Stuyvesant Falls (NYS); White Plains, May-Oct (Bno).
- 1389 **L. obscurus** Duf. Hamburg, Mar (*EPV*); White Plains, Ap-Oct, on Nov 4, out of water on vegetation and torpid (*Bno*); Mt. Vernon, Je (*Bno*); **SI**: New Brighton, Mar (Ols).

## BELOSTOMA Latreille

- 1393 **B. flumineum** Say. Cranberry L. and vic. (O&D); Buffalo, Sep (*EPV*-NYS); Black Rock Harb., Sep (*EPV*); Mooers, Sep, *Not* (Ols-AM); Ithaca, Aug-Sep (CU); L. Mahopac, Mar (Bno); White Plains, Jl-Nov (Bno); Yonkers (Ols); Van Cort. Pk., Bronx Pk., Mar-Sep (Bno); **SI**, Mar (Ols), Aug-Oct (Bno); **LI**: Flushing, Rockaway Beach, Maspeth, Mar-Nov (Ols); Forest Pk., Yaphank, Jl-Nov (Bno).
- 1394 **B. lutarium** Stål. Yaphank, Jl, Nov (Bno).
- 1401 **B. testaceum** Leidy. "NY" (VanD. Cat.).

## FAMILY GELASTOCORIDAE

Compiled by J. R. DE LA TORRE-BUENO

## GELASTOCORIS Kirkaldy

- 1407 *G. oculatus* Fab. **SI**, *Ds* (Bno).

## FAMILY OCHTERIDAE

Compiled by J. R. DE LA TORRE-BUENO

## OCHTERUS Latreille

- 1412 *O. americanus* Uhl. White Plains, May-Sep (Bno); Mosholu, May (Bno); **SI**, *Ds* (Bno); **LI**: Jamaica, Jl, Huntington, Jl, *Schott* (Ols).  
 1413 *O. banksi* Brb. White Plains, Je-Jl (Bno).

## FAMILY CORIXIDAE

Compiled by J. R. DE LA TORRE-BUENO

## CALLICORIXA White

- 1416 *C. praeusta* Fieb. Cranberry L., Bean Pond, Beaver Meadow (O&D).

## ARCTOCORIXA Wallgren

- 1422 *A. alternata* Say. White Plains, Mar-Je (Bno); **LI**: Cold Sp. Harb., Jl (Bno); Flushing, Sep-Oct, Maspeth, Dec (Ols).  
 1424 *A. calva* Say. Ithaca (Plunk); **LI**: Flushing, Mar, *Ols* (Plunk).  
 — *A. compressa* Abb. Cranberry L. (O&D).  
 1427½ *A. dubia* Abb. Ithaca, *Claas* (Hgfd).  
 1434 *A. harrisii* Uhl. White Plains, Valhalla, Mar, Sep, Nov (Bno); **LI**: Cold Sp. Harb., Jl (Bno).  
 1437 *A. interrupta* Say. Sodus Bay, Aug, *ACWeed* (Hgfd); Ithaca, Jl-Aug (Hgfd); White Plains, Mar, *Plunk* (Ols); **SI**, Mar (Ols), Jl (Bno); **LI**: Flushing, Aug, *Plunk* (Hgfd); Maspeth, Oct, *Plunk* (Ols).  
 1438 *A. kennicottii* Uhl. White Plains, Sep-Oct (Bno); Van Cort. Pk., May, Jl (Bno).  
 1440 *A. laevigata* Uhl. "NY", three specimens (Hgfd).  
 1442 *A. lineata* Forst. "NY" (VanD. Cat.).  
 1443½ *A. modesta* Abb. Ithaca, Jl (Bno); White Plains, Nepperhan, Je (Bno).  
 1444 *A. nitida* Fieb. White Plains, Mar, *Ols* (Plunk); **LI**: Maspeth, Mar, *Ols* (Plunk).  
 1444½ *A. ornata* Abb. Ithaca, *Claas* (Hgfd).  
 1444½ *A. parshleyi* Abb. Ithaca, paratypes.  
 1445 *A. pectenata* Abb. **LI**: Fire I. Beach, Jl 19, in wash-up (Bno).  
 — *A. scabra* Abb. Bean Pond, Cranberry L. (O&D).  
 — *A. lobata* Hgfd. **LI** (Hgfd).  
 — *A. obliqua* Hgfd. Ithaca, Jl-Aug (Hgfd).  
 — *A. vulgaris* Hgfd. Ithaca, Mar-Nov, *Alex*, *Plunk* (Hgfd); White Plains, *Bno* (Hgfd):



## PALMACORIXA Abbott

- 1462 *P. buenoi* Abb. Cranberry L. (O&D); Ithaca, J1 (Bno); Carmel, Aug (Bno); White Plains, Mt. Kisco, Valhalla, May-Sep (Bno); Van Cort. Pk., Je (Bno); Central Pk., NYC, Ap (Bno); **SI**, Aug (Bno); **LI**: Cold Sp. Harb., *Parsh* (Bno).

## CORIXA Geoffroy

- 1465 *C. macrocerops* Kirk. **LI**: Cold Sp. Harb., *Parsh* (Hgfd).  
 1467 *C. verticalis* Fieb. **LI**: Maspeth, Dec 28, 1907, *Ols* (Plunk).

## ORDER HOMOPTERA

The list in the order Homoptera has not had, properly speaking, a general editor, although Mr. E. P. Van Duzee was originally designated as in charge of this order at the time when the preparation of the state list as a whole was first contemplated. Pressure of other duties, and the transferral of Mr. Van Duzee's residence to California, have prevented him from continuing to take the general responsibility. While the Editor-in-Chief has assembled the data for many of the groups, Mr. Van Duzee has done an immense amount of work in making determinations, furnishing records, and correcting synonymy, with the exception of the specialized families Coccidae and Aphididae, which have been checked over by Messrs. Harold Morrison, and A. C. Baker and P. W. Mason, respectively. Mr. Van Duzee has been kind enough to look over the proof also.

The following families of this order are especially well represented in the State, due to the collecting and study by the specialists mentioned in connection with them: Cicadidae, Wm. T. Davis; Membracidae, W. D. Funkhouser, L. B. Woodruff, C. E. Olsen, and J. L. Buys; Cicadellidae, Herbert Osborn, D. M. DeLong, C. E. Olsen, and J. L. Buys; and for all three of these groups, of course, E. P. Van Duzee.

FAMILY CICADIDAE<sup>18</sup>

Compiled by WILLIAM T. DAVIS

## TIBICEN Latreille

- 1473 *T. linnei* (Smith & Grossbeck). Clyde, Aug, *Bish*; Albion, Ontario, Aug (NYS); Hamburg, Aug (EPV); Buffalo, Aug (EPV); Geneva, Canandaigua, Sep, *Fulton*; Gowanda, Aug (EPV); Ithaca, Aug (Univ. of Minn.), Aug, Sep, (CU), Aug (Ia. State Coll.), Aug (Morse); Coeymans, Aug-Sep (NYS); Saugerties, Aug, *Brb*; West

<sup>18</sup> There are but nine species of cicadas in New York State, whereas more inland areas, as Kansas and Colorado, have about twenty-five species each, and on the Pacific coast they are even more numerous. In *Tibicen auletes*, however, the State has one of the largest of North American cicadas, and in *T. chloromera* one of the most noisy and energetic. With the exception of the seventeen-year cicada, practically nothing is known of the life cycle of any of the species.

Pt., Sep, *Robn*; Yonkers; White Plains, Aug 29; Rye, Sep, several specimens, *Junius Bird*; W. Nyack, Aug; Central Pk., 1906; Inwood, Sep, *Ds*; Van Cort. Pk., Aug, *Ds*; City I., *Lesisski*; **SI**: generally distributed, but less plentiful where the soil is dry, late JI-Sep; **LI**: found in places from Brooklyn along the north shore to Orient; occurs on Gardiners I. and at Montauk, but is probably absent or unusual in the pine-barren regions of the island.

- 1479 **T. canicularis** (Harr.). Crown Pt., Aug, *Not*; Keene Val., JI-Aug (NYS), thirty-nine females, six males, Aug 18-Sep 29, six collected in Aug, thirty-nine in Sep, *Not*, Aug 11-26, *Diven*, Sep, *Eng*; Jay, JI (*WEBritton*); Upper Jay, Aug, *Not*; Mt. Whiteface, Aug, *FHBenjamin*; Ausable Chasm, Sep, *Not*; Hope, Aug (NYS); Newport, Sep (NYS); Lowville, JI-Aug, *RBHough*; Clinton, three females, *PBPowell* (*Ds*); Utica, JI (NYS); Syracuse, JI, *AJBasinger*, Aug-Sep, *Drk*, Sep 11 (Ia. State Coll.); Baldwinsville, Sep (Mich. Agr. Coll.); Belle Isle, JI (NYS); Oneida, Aug (US); Arcadia, Aug (Mich. Agr. Coll.); Clyde, Aug, *Bish*; Lake Bluff, Sep, *Bish*; Honeoye Falls, two males, one female, Aug, *Kngt*; Batavia, JI-Aug, *Kngt*; Hamburg, Aug (EPV); Buffalo, Aug (EPV); Geneva, two males, one female, Aug, *VHLowe*, Aug-Sep, *BBFulton*; Portage, JI, *JLHoward*; Wyoming Co, Sep, *Kngt*; Jamestown, JI, (NYS); Rock City, Sep, *GIWheeler*; Ithaca, eight specimens, JI 9, Sep 4 (CU), Aug (APMorse), JI, *HPMorrison*, Aug (Miss. Agr. Coll.), JI (Univ. of Mich.), Aug, *Eng*; Elmira, Aug, *Diven*; Preble, Aug (Ia. State Coll.); Saratoga Sps., *Angus* (AM); Albany, JI, Aug; Karner, JI, Aug, Sep (NYS); Nassau, Je (NYS); Big Ind. Val., Aug, *Pears*; Allaben, Aug, *Dow*, Aug, *AHHelme*; E. Jewett, Aug, *Ds*; Elk Bushkill Val., Sep; DeBruce, Sep, *Ds*; Callicoon, JI, *Ds*; L. Mahopac, Aug, *TDOConnor*; West Pt., Sep, *Robn*; Valley Cottage; Peekskill, Aug, *Sherm*; Yonkers; **SI**: when there were many groves of pines on the island, this was not an uncommon species, but it has become the rarest of the genus; on Sep 18, 1917, one was heard singing from a pine tree in the Moravian Cemetery; **LI**: there are no records for the western part of the island, but from Central Pk. eastward it is a common species, especially in the pine areas; it is less plentiful along the morainal hills of the north shore, but has been found as far east as Orient and Promised Land and also on Shelter I.
- 1477 **T. lyricen** (DeG.). Ilion (Titus); Sodus, *Foster* (AM); Niagara Falls, Aug 18, 1909 (EPV); West Pt., Sep, *Robn*; White Plains, Aug, *Ols*, *JBKnapp*; Pleasantville, *Kessler*; Tarrytown, JI, *Wood*; W. Nyack, Aug; Bronxville, JI, *Wood*, Aug; Bronx Pk., Aug, *Ds*; Van Cort. Pk., Aug; Central Pk., NYC (AM); **SI**: generally distributed over the island, and in 1922 heard singing as early as JI 8; is more of a tree-inhabiting species than *chloromera*; **LI**: found all over the island, including Orient Pt., Montauk, Shelter I., and Gardiners I. In late Aug, 1917, this species occurred in great numbers in places in the woods between Fresh Pond and Montauk; it was so abundant that the singing was a continuous performance.
- 1477a **T. lyricen** var. *engelhardti* (Ds.). Syracuse, JI, *AJBasinger* (Ia. State Coll.); Ithaca, Je (CU); West Pt., Sep 14, three males, *Robn*; **LI**: Montauk, Sep, *Ds*, Aug. In the South this variety occurs in the mountains and is rare in the lowlands.
- 1475 **T. chloromera** (Wlk.) (*Cicada sayi* Smith & Grossbeck). Gowanda, Aug, *EPV*; Albany, JI (NYS); Aug, *JSBailey* (AM); Castleton, Aug (NYS); Phoenicia, Aug, *EPV*; Saugerties, Aug, fifteen specimens,

*Brb*; Ft. Montgomery, Sep, *Schott*; Mt. Vernon, Aug, *GBeyer*; White Plains, Aug-Sep, nine males, two females, *JBKnapp*; Pleasantville, Sep, *Kessler*; Rye, Sep, *Bird*, Aug, *Ds*; Tarrytown, Jl, *Wood*; W. Nyack, Aug, *Ols&Ds*; Central Pk., Bronx Pk., Van Cort. Pk.; Throg's Neck, Aug, thirty-seven males, eleven females, *ASkinner*; **SI**: distributed all over the island and often found on low vegetation; Jl 8 (in 1913) is the earliest date that one has been heard singing on the island; on Oct 11, 1919, a very warm day, two were heard at St. George; **LI**: common on the westerly part of the island, but not recorded east of Oyster Bay and Hempstead; appears to prefer rather damp, heavy soil; occurs in Prospect Pk., Brooklyn.

- 1484 **T. auletes** (Germ.). Van Cort. Pk., Aug, *Ds*; Manhattan I., Sep, *Shoe*; **SI**: rather partial to sandy ground; Arrochar, Old Place, Watchogue, Long Neck near Travisville, Richmond Val., Jl-Sep. On Sep 10, 1916, there were a considerable number of these insects in the trees to the north of the Finger Board Road near the corner of Sand Lane, Arrochar. They were so numerous that their songs were continuous. **LI**: Pine-lawn, Patchogue, Farmingville, Selden, Coram, Yaphank, Wading R., Riverhead, Montauk, Jl-early Oct. No doubt generally distributed over the island, especially in the areas of loose soil. Often sings in the late afternoon and into the evening.

#### CICADA Linnaeus

- 1501 **C. hieroglyphica** Say. **LI**: A few seen among the pines near Bald Hill, Riverhead, Aug, 1917, and six males captured in the same locality, Jl 18, 1918. The species no doubt occurs elsewhere on LI.

#### MAGICICADA Davis

- 1510 **M. septendecim** (L.) and form *cassinii* (Fisher). PERIODICAL CICADA, or SEVENTEEN-YEAR CICADA. Occurs in certain years very plentifully on **SI**, **LI**, in the Hudson R. Val., and in the central and western parts of the State. Occurs more sparingly elsewhere in the State, and appears to be absent from the higher regions. Only a few of the broods recorded as occurring in the State are really of prime importance, the others feebly representing some outlying swarms, or being perhaps belated individuals or else those that have appeared prematurely.

The small form *cassinii* appears with the larger *septendecim* and is usually considered as a variety of it. Its song is totally different from that of the large *septendecim*, being a series of chirps. It occurs in colonies in the area occupied by its larger relative, and is not so numerous or so widely spread.

On **SI**: brood 2 (1911-1928) appears in countless numbers; brood 6 (1915-1932) is the next largest, while broods 1, 3, 4, 5, 10, 13, 14, 15, and 17 have also been recorded, but not in large numbers.

On **LI**: brood 10 (1919-1936) and brood 14 (1923-1940) are the largest. Broods 1, 2, 4, 5, 8, and 9 have also been observed. Brood 1 (1910-1927) has a considerable swarm in the Half Way Hollow Hills, and brood 5 (1914-1931) in several localities from Wyandanch to Wading R.

Elsewhere in the State, brood 2 (1911-1928) is the great swarm in the Hudson R. Val., extending as far north as Washington and Saratoga Counties. Brood 3 (1912-1929) has been reported from Genesee (NYS

Ent., 1912), brood 4 (1913-1930) from West Pt., brood 5 (1914-1931) from West Pt., brood 6 (1915-1932) from West Pt. (Robn), also from Dutchess, Greene, and Schenectady Counties (Rept. State Ent., 1915, and Bul. 71 of U. S. Dept. Agr., 1907); brood 7 (1916-1933) occurs in the central and western parts of the State, and has been reported from the following counties: Madison, Monroe, Onondaga, Ontario, Livingston, Yates, Cayuga, and Tompkins. Wyoming Co is given, as well as the above, in Bul. 71 of the U. S. Dept. Agr., 1907. For brood 8 (1917-1934) there is a doubtful record for Chautauqua Co. Brood 10 (1919-1936) is recorded from Monroe, Ontario, Niagara, and Columbia Counties. Brood 15 (1924-1941) is recorded from Saratoga and Dutchess Counties, in Bul. 71 of the U. S. Dept. Agr., 1907.

## OKANAGANA Distant

- 1518 **O. rimosa** (Say) (*O. noveboracensis* Emmons). Wilmington, Jl, *Ds*; Ithaca; 1523 Windsor, Je, two females, *Not*; West Pt., pupa skin, *Robn*, and heard singing on several occasions (*Ds*); top of Bear Mt., Interstate Pk., Je, *Schott*; **LI**: Rockaway Beach, in drift, Je, *Eng*, *Shoe*.

The following records are supposed to belong to this species, though possibly they may belong to the next; Egleston's Glen, near Keuka L., Je, singing (*Ds*); near Potter Swamp, Je, a number singing; Letchworth Pk., Je 13, 1915, pupa skin, also a number singing. This species is distributed across the northern part of North America from Me to B.C.

- 1518 **O. canadensis** (Prov.). Valcour I., L. Champlain, Aug (PLaurent); Niagara Falls (AM); Buffalo, Je (EPV); Canandaigua L., Jl; Ithaca, Jl (NYS), Je (Iowa State Coll.); Enfield Falls, Aug; Indian Ladder, Jl, Schoharie, Je, *Not*.

FAMILY CERCOPIDAE<sup>19</sup>

## SUBFAMILY CERCOPINAE

## MONECOPHORA Amyot and Serville

- 1545 **M. bicincta** Say. Ramapo, Jl (*Ds*); Mosholu, Bronx Pk., Jl, *Joutel* (*Ds*); Wyandanch, Aug (*Ds*, *Ols*); Yaphank, Aug (*Ds*).  
1545a **M. bicincta** var. **ignipecta** Fitch. Mosholu, Jl (Ball).

## SUBFAMILY APHROPHORINAE

## APHROPHORA Germar

- 1546 **A. quadrinotata** Say. Cranberry L., Jl, Wanakena, Aug, on a variety of plants (*Os*); White L., *Zab* (AM); L. Placid, Aug (EPV); Batavia, Aug, *Kngt* (Morr); Buffalo (EPV); Lime L., Salamanca, Gowanda, Jl-Aug (EPV); Ithaca, Jl-Aug (CU); Olivera, Je, *Shoe* (*Ols*); L. George, Aug, *Zab* (*Ols*-AM); **SI**, Je-Oct (*Ds*); **LI**: Flatbush, Jl-Aug, *Zab* (*Ols*-AM); Flushing, North Beach, Maspeth, Hempstead, Jl (*Ols*); Yaphank, Jl (*Ds*, *Ols*); Massapequa, Fire Place, Wading R., Southold, Orient, Jl-Sep (*Ds*).

<sup>19</sup> L. A. Stearns, of the New Jersey Agricultural Experiment Station, has been so kind as to check the manuscript for the family Cercopidae.



- 1548 **A. parallela** Say. PINE SPITTLE BUG. Cranberry L., J1-Aug, on many conifers, breeding on spruce and pine (Os); Batavia, J1, *Kngt* (Morr); Lancaster, Colden, Hamburg, Elma, Gowanda, Salamanca, Je-Aug (EPV); Ithaca (div.); Karner (Felt); E. Jewett, Aug (Ds); **SI**, Je-J1 (Ds); **LI**: common and generally distributed on pines, J1-Oct (Ds); Bay Shore, Yaphank, Wyandanch (Ols).
- 1551 **A. saratogensis** Fitch. Hamburg, Gowanda, Salamanca, Aug (EPV); Ithaca (WJBaerg); E. Jewett, Aug (Ds); Karner, J1 (Felt); **SI**, Je-J1 (Ds); **LI**: Bay Shore, Yaphank, Wyandanch, J1 (Ols). On pine.
- 1553 **A. signoreti** Fitch. Keene Val., J1, *Not* (Ols); Wilmington, J1 (Ds); Ithaca (WJBaerg); Ramapo, J1 (Ds); **SI**, Je-Aug (Ds); **LI**: Bay Shore, Yaphank, Wyandanch, J1-Aug (Ols).

## LEPYRONIA Amyot and Serville

- 1555 **L. quadrangularis** Say. Keene Val., Aug, 1895 (Ball-NYS); L. Placid, Aug-Sep (EPV); Axton, Je (M&H); Saranac L., Sep (Ds); Rochester, J1, *Wendt* (Ols); Portage, May, *Kngt* (Morr); Batavia, May, *Kngt* (Morr); Buffalo, Hamburg, Gowanda, J1-Aug (EPV); Ithaca (CU); L. George, Aug, *Zab* (AM); W. Hebron, Sep, *Lg* (Ds); Karner (Felt); Yorktown Hgts., Sep (Ols); Bronx Pk., Aug (Ols); **SI**, J1-Oct (Ds); **LI**: Sea Cliff (EPV); Sands Pt., Oct, *Bs*, Flushing, Aug (Ds); Flushing, Hempstead, Wyandanch, Fishers I., J1-Sep (Ols).

## PHILARONIA Ball

- 1559 **P. bilineata** Say. Cranberry L., J1; Wanakena, Aug.

## PHILAENUS Stål

- 1560 **P. leucophthalmus** L. (*spumarius* L.). Cranberry L., Wanakena, nearly all varieties occur, J1-Aug (Os); Ithaca; Salem, J1 (*Ball*).
- 1560a **P. leucophthalmus** var. *falleni* VanD. Indian L., near Sabael, Aug, *Brb* (Ols), as form *biguttatus* Fab.
- 1560b **P. leucophthalmus** var. *ulstulatus* Fall. Salem, J1 (*Ball*).
- 1560d **P. leucophthalmus** var. *leucocephalus* L. L. Placid, Oct (Ds); Wilmington, J1 (Ds); Genesee Co, Je (Ds); Salem, J1 (*Ball*).
- 1560h **P. leucophthalmus** var. *pallidus* Zett. Salem, J1 (*Ball*).
- 1561 **P. lineatus** L. Potsdam, J1, Houghton (Ols); L. Placid, Sep (EPV); Saranac L., Sep (Ds); Cranberry L., Wanakena, J1-Aug (Os); Batavia, J1-Aug, *Kngt* (Lawson); Hamburg, Lancaster, Elma, Salamanca, Je-Sep (EPV); Ithaca, J1 (div.); Olivera, J1, *Shoe* (Ols); DeBruce, Aug-Sep; L. George, Aug, *Zab* (Ols-AM); Salem, J1 (*Ball*); **LI**: Fishers I., *Zab* (Ols-AM).

## CLASTOPTERA Germar

- 1562 **C. obtusa** Say. L. Placid, Aug (EPV); Cranberry L., Wanakena, J1-Aug (Os); Albion (EPV); Portage, Aug, *Kngt* (Morr); Batavia, *Kngt* (Morr); Buffalo, Niagara Falls, Gowanda, Lancaster, Colden, Hamburg, Lawtons (EPV); Otto (Uhl-CU); Ithaca (CU); Salem, Je (*Ball*); W. Albany (Lint); Scarsdale (Lint); **LI**: Sea Cliff (EPV-CU); Flushing, Bay Shore, Winfield, Maspeth, Yaphank, Wyandanch, J1-Sep (Ols).



- 1562a **C. obtusa** var. **achatina** Germ. Colden, Boston, Gowanda, Salamanca (EPV); **LI**: Hempstead, Flushing, Maspeth, J1-Sep (Ols).
- 1562b **C. obtusa** var. **testacea** Fitch. "NY" (Fitch); Ithaca (WJBaerg); **LI**: Bay Shore, Wyandanch, J1-Aug (Ols).
- 1566 **C. proteus** Fitch. Ausable R. (EPV); Keene Val., Je (Ball-NYS); Cranberry L., Wanakena, J1, Aug (Osb); Portage, Aug, *Kngt* (Morr); Batavia, *Kngt* (Morr); Buffalo (EPV); Hamburg, Aug (EPV); Ithaca (*Kngt*, Baerg); Ft. Montgomery, J1 (Ds).
- 1566- **C. proteus** var. **flava** Ball. Keene Val., J1 (Ball-NYS).
- 1566b **C. proteus** var. **vittata** Ball. Hamburg, Aug (EPV); **SI**, J1 (Ds); **LI**: Flushing, Bay Shore, J1 (Ols).
- 1566c **C. proteus** var. **pini** Fitch (var. *nigra* Ball). Hamburg, Elma, Je-J1 (EPV); Ithaca (WJBaerg); Matteawan, Je (Lint); **LI**: Bay Shore, Yaphank, J1 (Ols).
- 1566- **C. proteus saint-cyri** Prov. Ithaca, *Baerg* (Ball).

FAMILY MEMBRACIDAE <sup>20</sup>

## SUBFAMILY SMILIINAE

## CERESA Amyot and Serville

- 1570 **C. diceros** Say. Keene Val., Elizabethtown, Long L. (NYS); Saranac L., *Kngt* (Funk); Wells, *Yg* (Funk); Severance, *CSBanks* (NYS); Cranberry L. (Osb); Wilmington (NYS); Wanakena (Osb); Potsdam, Aug (EPV-CU); L. Placid, Aug (EPV); Rochester, *Wendt* (Ols); Hamburg, Boston, Colden, Elma, J1-Aug, Buffalo (EPV); Naples, *Bish* (Wood); Pike (NYS); Ithaca (EPV, Funk); Binghamton, Cortland (Funk); Karner (NYS); Normansville, *Leon* (Wood); Danby Hill, *Comst*, Aug, 1885 (CU); Watervliet Reservoir, *Leon* (Wood); Phoenicia (EPV); Callicoon, *Ds* (Wood); Poughkeepsie (NYS); West Pt., *Ds* (Wood); Millerton, *Dickerson* (Wood-AM); White Plains, J1, *Bno* (Ols, Wood); Allaben, Aug, *Pears* (Ols); Bronxville (Wood); **SI**, *Ds* (Wood); **LI**: *Ds* (Wood); Flushing, Aug (Ols); Maspeth, Aug (Ols); Hempstead, Sep, Rockaway Beach, Aug (Ols). Locust, elder, oak, sycamore, sweet clover, blackberry, butternut, goldenrod, wild cherry, grape, joe-pye weed.
- 1571 **C. albescens** VanD. Saranac L. (Wood); Wilmington (Funk); Niagara Falls (EPV); Hamburg, Elma, J1-Aug (EPV); NYC, *Ds* (Wood).
- 1572 **C. bubalus** Fab. BUFFALO TREE HOPPER. Waddington (Wood); Cranberry L. (Osb); Barber Pt., Wanakena (Osb); Wilmington (Funk); Long L., Keene Val., Clinton Hgts., Hope (NYS); Albion, Aug (EPV); Clyde, *Bish* (Wood); Rochester (Funk); Churchville (Funk); Niagara Falls (EPV); Buffalo, Hamburg, Lancaster, Gowanda, J1-Sep (EPV); Pike (NYS); Geneva, *Hodg* (Funk); Ithaca (Funk); Cortland (Funk); L. George, *Leon* (Wood); Albany, Karner (NYS); Nassau L., *Leon* (Wood); Salem (NYS); Normansville, *Leon* (Wood); Watervliet Reservoir, *Leon* (Wood); Callicoon, *Ds* (Wood); Sullivan Co, *GFrank* (Ols); White Plains (Ols); High Bridge, *Kirkaldy*;

<sup>20</sup> The list in this family has been chiefly compiled from records, published and unpublished, furnished by E. D. Ball, W. D. Funkhouser, L. B. Woodruff, and C. E. Olsen. The first three specialists have looked over the manuscript and made changes and corrections in synonymy which the editor has attempted to harmonize as far as he has been able.

- NYC, *Ang* (Ols); Bronxville (Wood); **SI**, *Ds* (Wood); **LI**: Far Rockaway (Wood); Woodlawn, *Dickerson* (Wood-AM); Maspeth, Flushing (Ols). Sycamore, aster, poplar, potato, butternut, hazelnut, pear, sumac, oak, locust, elm, willow, elder, sweet clover, hickory, pignut, apple, white oak, joe-pye weed, grape, sweet pepperbush.
- 1574 **C. brevitylus** VanD. **LI**: Brooklyn (Funk).
- 1576 **C. taurina** Fitch. Wilmington (Funk); Keene Val. (NYS); Batavia, J1-Aug, *Kngt* (Funk); Buffalo, Colden, Hamburg, Boston, Lime L., Gowanda, and Salamanca, J1-Aug (EPV); Geneva, *Hodg* (Funk); Ithaca (Funk); Ballston L., *Leon* (Wood); Watervliet Reservoir, *Leon* (Wood); Olivera, *Ds* (Wood); NYC, *Mtch* (Funk); Bronxville (Wood); **SI**, *Ds* (Wood, *Ols*); **LI**: Maspeth, Winfield, Flushing, Forest Hills (Ols); Brooklyn (Funk). Raspberry, hickory, potato, blackberry, dahlia, hazelnut, locust, witch-hazel, blue grass, white and red oak, beech, pear, apple, sweet clover, bittersweet, morning glory, quince.
- 1577 **C. constans** Wlk. Wilmington (Funk); Buffalo, Hamburg, Boston, Aug-Sep (EPV); Ithaca (Funk); Bronxville (Wood); **SI**, *Ds* (Wood); **LI**: *Ds* (Wood); Yaphank (Wood); Wyandanch (Ols).
- 1578 **C. palmeri** VanD. Olcott, *Dt* (Funk); Rochester (Funk); Batavia, *Kngt* (Funk); Buffalo (EPV); Salamanca, J1 (EPV); Ithaca (EPV); Coy Glen (Funk); W. Hebron, *Ds* (Wood); Hebron (EPV); Bronxville (Wood); Riverdale (Wood); Bronx, *Ds* (Wood); NYC (*Mtch*); **SI** (Wood); **LI**: Wyandanch, Flushing (Ols). Hickory, wild cherry, red oak, scarlet oak, swamp white oak, grass.
- 1579 **C. borealis** Fairm. Mt. Whiteface (Funk); Saranac L. (Funk); Rochester (Funk); Hamburg, E. Aurora, Elma, Buffalo, Boston, Lancaster, Gowanda, Salamanca, J1-Sep (EPV); Batavia, J1-Aug, *Kngt* (Funk); Geneva, *Hodg* (Funk); Otto, Sep (EPV-CU); Danby, Aug (EPV-CU); Ithaca, Cortland (Funk); Scarsdale (Funk); Nassau L., *Leon* (Wood); Catskills, *Ds* (Wood); W. Nyack (Ols); Bronxville (Wood); Millerton, *Dickerson* (Wood-AM); Riverdale (Wood); NYC (*Mtch*); **SI**, *Ds* (Wood); **LI**: *Ds* (Wood); Flushing, Bay Shore, Maspeth, Port Washington, Queens, Wyandanch, Hempstead, Forest Hills (Ols); Lott Wood, *Zab*, Flatbush, *Zab*, *Schott* (Ols); Woodlawn, *Dickerson* (Wood-AM). Wild grape, locust, elder, red, white, and swamp white oak, willow, hickory, pignut, raspberry, sycamore, apple, pear, beech, grass.
- 1580 **C. basalis** Wlk. (*turbida* Goding). Speculator, Wells, *Yg* (Funk); Wilmington (Funk); Keene Val. (NYS); Saranac L., *Ds* (Ols); North Cr. (NYS); Mt. Whiteface (Funk); Wanakena (Osb); New Russia, *Bdy* (Funk); Cranberry L. (Osb); Albion, Aug (EPV); L. Placid, Aug (EPV); Waddington (Wood); Buffalo, Hamburg, Boston, Gowanda, J1-Sep (EPV); Phoenicia (EPV); Kingston (EPV); Catskills, *Ds* (Wood); **LI**: Jamaica (EPV-NYS). Sweet clover, rose, clematis.
- 1582 **C. brevis** Wlk. Gowanda, Aug (EPV).
- 1583 **C. brevicornis** Fitch. Buffalo and vic., J1-Oct (EPV); **LI**: *Ds* (Wood); Yaphank, Wyandanch, *Ds* (Wood); Bay Shore (Ols).

## STICTOCEPHALA Stål

- 1587 **S. inermis** Fab. Keene Val. (NYS); Saranac L., Rochester (Funk); Batavia, J1, *Kngt* (Funk); Niagara Falls, Buffalo, Hamburg, Lancaster, Colden, J1-Sep (EPV); Clyde, *Bish* (Wood); Geneva, *Hodg* (Funk);

Ithaca (EPV); Karner (Wood-NYS); White Plains (Funk, Ols); W. Nyack (Ols); Ft. Montgomery, *Ds* (Wood); Riverdale (Wood); **LI**: Hempstead (Ols). Sweet clover, apple, timothy, red clover.

- 1598 **S. lutea** Wlk. Axton, Je, *M&H* (EPV-CU); Rochester, *Wendt* (Ols); Baldwinsville, Buffalo, Hamburg, Portage Falls, Fulton, Gowanda, Mud Cr., Ithaca, Caroline to Harford, Slaterville to Caroline, McLean, May-Sep (EPV-CU); Clyde, *Bish* (Wood); Genesee Co (Wood); Westfield, *Dickerson* (Wood-AM); Binghamton (Funk); Ilion (NYS); Albany (Wood); Poughkeepsie, *Yg* (Wood); Thacher Pk., *Leon* (Wood); Nassau (Wood); E. Jewett, *Ds* (Wood); Oliverea, *Shoe* (Ols); Tivoli (Wood); West Pt., *Ds* (Wood); Ft. Montgomery, *Ds* (Wood); Bronxville (Wood); White Plains (Ols); **SI**, *Ds* (Wood); **LI**: Yaphank, Bay Shore, Wyandanch, Pine Lawn, Maspeth (Ols); Brooklyn (Funk); E. Hampton and West Hills (Funk). Oak, daisy.

- 1600 ?**S. nervosa** Buckt. "NY" (Buckton).

— **S. sp.** Woodruff states that specimens belong here which are identified as *substriata* Wlk. in collection. **LI**: Central Pk. (Wood); Bay Shore, *Ols* (Wood).

#### ACUTALIS Fairmaire

- 1602 **A. tartarea** Say. Ithaca (EPV-CU); Wampus (Wood); White Plains, *Bno* (Wood); **SI** (Ols); **LI**: Maspeth, *Ols* (Wood); Winfield, Maspeth, Flushing (Ols). Locust.
- **A. tartarea** var. *semicrema* Say. Batavia, *Kngt* (Funk); Albany (NYS); Yonkers, *Ols* (Wood); White Plains (Funk); Van Cort. Pk., Bronxville, NYC (Wood); **SI** (Ols); **LI**: Winfield, *Ols* (Funk); Maspeth, Flushing (Ols); Aqueduct (Ols); Brooklyn (Funk). Boneset, goldenrod.

#### MICRUTALIS Fowler

- 1604 **M. dorsalis** Fitch. Johnstown (NYS); Buffalo, Gowanda, Aug (EPV); Ithaca (EPV); Calders (Ball); E. Jewett, *Ds* (Wood). Clematis.
- 1605 **M. calva** Say. Ithaca (Funk); Scarsdale (Wood); Poughkeepsie, *Yg* (NYS); Bronxville (Wood); NYC (Mtch); **LI**: Flushing (Ols, Funk); Sea Cliff (EPV-CU). Alfalfa, locust, boneset.

#### CARYNOTA Fitch

- 1609 **C. mera** Say. Batavia, *Kngt* (Funk); Buffalo, Boston, Hamburg, Gowanda, Salamanca, JI-Aug (EPV); Ithaca, JI-Aug (EPV); Coy Glen, *Dt* (Funk); Albany (*Yg*); White Plains (Ols); NYC (Mtch); Bronxville (Wood); **SI** (Ols); **LI**: Yaphank (Wood); Flatbush, *Dow* (Mtch). Oak, hickory, butternut.
- 1611 **C. stupida** Wlk. Cranberry L., Wanakena (Osb).
- 1613 **C. marmorata** Say. Near Ausable R., Aug (EPV); Cranberry L. (Osb); Wells, Blue Mt., *Yg* (NYS); L. Placid (EPV); L. Pleasant (NYS); Bronxville, Wampus (Wood); **LI**: Aqueduct (Wood). Alder.
- 1614 **C. porphyrea** Fairm. Michigan Hollow, Ithaca (Funk); Saugerties, JI (Funk). White oak.

## THELIA Amyot and Serville

- 1615 *T. bimaculata* Fab. Potsdam (EPV); Rochester (Funk); Buffalo, Gowanda (EPV); Wyoming Co, *Kngt* (Funk); Ithaca, Cortland, Binghamton (Funk); Albany, *Yg* (NYS); W. Hebron, *Ds* (Wood); White Plains (Funk); Riverdale (Wood); NYC (Mtch); **SI**, *Ds* (Wood, Mtch); **LI**: Cold Sp. Harb., Sep (Mtch, Funk); Flushing, Port Washington, Hempstead (Ols). Black locust.
- 1616 *T. uhleri* Stål. Buffalo and vic. (EPV); Ithaca (Funk). Plum.

## GLOSSONOTUS Butler

- 1617 *G. acuminatus* Fab. Buffalo, Colden, Lancaster (EPV); Ridgeway (Ball); Ithaca (Funk); Karner, *Jl* (Felt); Bronxville (Wood); NYC (Mtch); **LI**: Yaphank, *Ds* (Wood); North Beach (Ols). Black, white, and red oak.
- 1618 *G. turriculatus* Emms. Batavia, *Kngt* (Funk); Karner, *Jl* (Wood); **SI**, *Ds* (EPV); **LI**: Bay Shore (Ols); Wyandanch, Central Pk. (Ols); Huntington (Wood); Yaphank, *Ds* (Wood). Scrub oak.
- 1619 *G. univittatus* Harr. (*godingi* VanD.). Sacandaga Pk., *Alex* (Funk);  
 1620 Gloversville, *Jl* (NYS); Rochester, *Wendt* (Ols), *Moore* (EPV); Batavia, *Kngt* (Funk); Buffalo, Gowanda, Je (EPV); Ithaca (Funk); Karner, *Jl* (Felt); Pine L., Ft. Montgomery, *Ds* (Wood); Riverdale (Wood); Bronxville (Wood); NYC (Mtch); **LI**: Bay Shore, Central Pk. (Ols); Rockaway Beach, *Schott* (Ols); Yaphank (Wood).
- 1621 *G. crataegi* Fitch. Kendall, *Jl* (NYS); Batavia, *Jl*, *Kngt* (Funk); Hamburg, Lancaster, *Jl* (EPV); Albion (Funk); Kingston (Wood-AM); **SI**, *Ds* (Wood). Hawthorn, crab apple, quince.
- *G. nimbatulus* Ball. Karner (Ball-NYS); **LI**: Massapequa, *Ds* (Ball). Scrub oak.

## HELIRIA Stål

- 1622 *H. cristata* Fairm. "NY", probably Salem (Fitch-NYS); **LI**: Wading R., *Ds* (Wood).
- 1623 *H. scalaris* Fairm. Lancaster, Colden, *Jl* (EPV); Ithaca (Funk); Pine L., *Sf* (Ball); Bronx (Wood).
- 1624 *H. projecta* Butler. Ithaca, Je-*Jl* (EPV).
- *H. cornutula* Ball. Knoll, *DeL*, Pine L., *Sf*, Bronx, Oct, *Mtch*, **LI**, *Ols* (all Ball).
- *H. fitchi* Ball. "NY" (Fitch-US).

## TELAMONA Fitch

- 1629 *T. pyramidata* Uhl. Wilmington, Saranac L. (Wood); Gloversville (Wood-NYS); Ithaca (EPV); Albany (Ball-NYS). Chestnut, oak, willow.
- 1628 *T. pyramidata* var. *declivata* VanD. Cranberry L. (Osb); Rochester, *Wendt* (Ols); Honeoye Falls, *Kngt* (Funk); Spring Brook, *Je* (EPV); Ithaca (CU). This synonymy is Ball's.
- 1632 *T. westcotti* Goding (*obsoleta* Ball). Keene Val. (Wood-NYS); Ithaca,  
 1633 *Jl* (EPV); **LI**: Central Pk., *Ds* (Wood). Oaks.
- 1634 *T. dubiosa* VanD. Ithaca (EPV-CU); Rye, *Ds*, Bronxville (Wood). White oak.



- 1635 **T. reclinata** Fitch. Wanakena (Ols); Saranac L., *Ds* (Wood); Cobleskill (EPV-CU); Mt. Whiteface, *Ds* (Wood); Batavia, *Kngt* (Funk); Niagara Falls, Buffalo, Hamburg, Colden, Hamburg, Ashford, Gowanda, J1-Aug (EPV); Ithaca, Aug (EPV); Big Ind. Val., *Ds* (Wood); L. George (Wood-AM); Pine I., *Ds*, Bronxville (Wood); **SI** (Wood); **LI**: Central Pk., Cold Sp. Harb., *Ds* (Wood). Dr. Ball writes that almost all references to *reclinata*, especially those referring to basswood, belong to *tilliae* Ball. White oak, swamp white oak, red oak.
- 1630 **T. decorata** Ball (*barbata* VanD.). Cranberry L., *Osb* (Funk); Medina, *LHWeld* (Funk); Batavia, *Kngt* (Funk); Boston, Aug (EPV); Ithaca, Je (Funk, EPV); Scotia, *Yg* (Wood-NYS); L. Mohonk (Wood); Pine I., *Ds* (Wood); Central Pk., NYC, J1, *Sf* (Ball-Brooklyn Museum). Chestnut oak, white oak, linden, basswood. Dr. Ball states that most of these references are from males of *tilliae* Ball.
- 1644 **T. monticola** Fab. (*querci* Fitch). Mt. Whiteface, *Ds* (Wood); Rochester, *Wendt* (Ols); Olcott, *Dt*, Batavia, Aug, *Kngt* (Funk); Buffalo, Lancaster, J1 (EPV); Medina (Ball); Portage, *Kngt* (Funk); Gowanda, Aug (EPV); Conesus L., *Ds* (Wood); Rock City, *Kngt* (Funk); western NY (EPV); Ithaca, J1-Aug (Funk-CU); L. Mohonk (Wood); Pine I., *Ds* (Wood); Nyack (Wood-AM); Ft. Montgomery, May (Ball); Bronxville (Wood); **SI**, *Ds* (Wood); **LI**: Half Way Hollow Hills, *Ds* (Wood); Wyandanch, *Schott* (Ols); Flatbush (Wood); Yaphank, *Ds* (Wood). White, chestnut, and red oak.
- 1646 **T. ampelopsidis** Harr. Potsdam, *Houghton* (Ols); Ogdensburg (NYS); Wilmington (Funk); Oswego (NYS); Rochester (Funk); LeRoy, Cy (Funk); Buffalo, J1-Aug (EPV); Ithaca, Je-Oct (CU); Interlaken, Cortland (Funk); Binghamton (Funk); Trumansburg (Funk); Albany (NYS); Menands (NYS); Ft. Montgomery, *Schott* (Ols); NYC, *Ds* (Wood); **SI**, *Ds* (Wood); **LI**: Yaphank, *Ds* (Wood); Brooklyn (Wood); Maspeth (Ols). Virginia creeper.
- 1647 **T. tristis** Fitch. Batavia, *Kngt* (Funk); E. Aurora, Sep (EPV); Ashford, Gowanda, J1-Aug (EPV); Ithaca (Funk); **SI** (Wood-AM). Witch-hazel, basswood, oak, hazelnut.
- T. tristis** var. *coryli* Fitch. Wanakena (*Osb*); Batavia, Aug, *Kngt* (Funk); Lancaster, Otto, Gowanda, J1-Aug (EPV); Ithaca (Funk); Slide Mt., *Ds* (Wood); Orange Co, *WTBather* (Ols); **SI** (Wood). Oak, hazelnut.
- 1648 **T. concava** Fitch. Lewiston, J1 (EPV); Ithaca, *GFAtkinson* (EPV); Salem (Ball-NYS, US).
- T. ornata** Emm. Bronxville (Wood). *Quercus alba* and *Q. velutina*. Woodruff considers this distinct from *concava*.
- 1649 **T. gemma** Ball. Adirondacks, *Brb* (Ball); Lancaster, *EPV* (Ball); Ithaca (Funk); Catskills, *Ols*, *Drk* (Ball).
- 1651 **T. unicolor** Fitch. Rochester, *Wendt* (Ols); Batavia, J1-Aug, *Kngt* (EPV); Hamburg, Colden, E. Aurora, Spring Brook, Je-Sep (EPV); Portage, *Kngt* (Funk); Ithaca, Albany (Funk); Pine I., *Ds* (Funk); W. Nyack (Ols, Wood); Bronxville (Wood); **LI**: Rockaway Beach, *Schott* (Ols). Hickory, butternut, walnut, basswood.
- 1651a **T. unicolor** var. *irrorata* Fitch. "NY" (EPV).
- 1652 **T. extrema** Ball. Batavia, *Kngt* (Funk); Karner (Wood-NYS); **LI**: Winfield (Ols); Orient Pt., Coram, *Ds* (Wood). Scrub oak.



- 1653 **T. collina** Wlk. Hamburg, J1 (EPV); Ithaca (EPV, Funk); Pine I., Bronxville (Wood). Sycamore, bur oak.
- 1654 **T. maculata** VanD. Ithaca, Aug (Funk); Pine I., *Ds* (Funk, Wood); Bronxville (Wood); **SI**, *Ds* (Wood); **LI**: Wading R., *Schott* (Wood); Yaphank (Funk). Swamp white oak, white oak.
- **T. tremulata** Ball. Cranberry L., *O&D*, as *barbata* (Ball); Salem, J1 (Ball).
- **T. woodruffi** Ball. Pine I., J1 (Ball-BM).

## ARCHASIA Stål

- 1661 **A. galeata** Fab. Buffalo, J1 (EPV); Karner (NYS); **LI**: Wyandanch, J1, *Ds* (Ball); Bay Shore, *Ols* (Wood); Pinelawn, Wading R., Central Pk., *Ds* (Wood). Oaks.
- 1662 **A. belfragei** Stål. Medina, *LHWeld* (Funk); Buffalo, Hamburg, Gowanda, Je-J1 (EPV); Ithaca (EPV, Funk); Pine I., *Ds* (Wood); White Plains (Funk); Bronxville (Wood); **SI**, *Ds* (Wood); **LI**: Wyandanch, *Ds* (Funk); Coram, *Eng* (Wood); Massapequa, Yaphank, *Ds* (Wood). Oaks.

## SMILIA Germar

- 1664 **S. camelus** Fab. Rochester, *Wendt* (Ols); Batavia, *Kngt* (Funk); Buffalo (EPV); Ithaca (CU); Glenmont, *HDHouse* (Wood-NYS); Nassau (NYS); Catskills (Mtch); Ramapo Mts. (Mtch); Bronx Pk., *Wat* (Ols); **LI**, Je, *Eng* (Mtch, Ols). Locust, oak.
- 1664a **S. camelus** var. *guttata* Fitch. "NY" (Fitch); New Foundland, Je, *Wat* (Mtch).
- 1664d **S. camelus** var. *silvestri* Mtch. Otis Summit, Catskills, Je, *Silvester* (Mtch).

## CYRTOLOBUS Goding

- **C. funkhouseri** Wood. Ft. Montgomery, *Schott* (Wood); **SI**, *Ds* (EPV) as *celsus* belongs here (Wood); **LI**: Central Pk., *Shoe* (Wood); Yaphank, Massapequa, Wading R., *Ds* (Wood); Bay Shore, *Ols* (Wood).
- 1668 **C. ovatus** VanD. Ithaca (Funk); **SI**, *Ds* (EPV); **LI**: Bay Shore, *Ols* (Wood); E. Hampton (Funk); Yaphank, *Ds* (Wood).
- 1669 **C. fuliginosus** Emms. Rochester, *M&W* (Wood, EPV); Indian Falls, *Ds* (Wood); Ithaca (Funk); Salem, J1 (Ball); Bronxville (Wood); **SI**, *Ds* (Wood); **LI** (Wood). All large oaks.
- 1671 **C. arcuatus** Emms. Ithaca, *Kngt* (Funk); **SI**, *Ds* (Funk); **LI**: Yaphank (Wood).
- 1672 **C. fenestratus** Fitch. Rochester, *Wendt* (Wood); Batavia, *Ds* (Wood); Catskills (Wood); Bronxville (Wood); **LI**: Yaphank, *Ds* (Wood). Large oaks.
- 1673 **C. tuberosus** Fairm. Rochester, *Wendt* (Wood); Ithaca (EPV); Danby (Funk); Spencer (Funk); Pine I. (Wood); **LI**: E. Hampton (Funk); Yaphank, *Ds* (Wood); Coram, *Eng* (Wood); Kings Pk., *Bell* (Ols).
- 1676 **C. discoidalis** Emms. Genesee Co, *Ds* (Wood); Boston, Aug (EPV); Ithaca (EPV, Funk); **LI**: Farmingdale, *Morrow* (Funk).
- **C. acuminatus** Wood. Pine I., *Ds* (Wood).
- **C. aureoreus** Wood. Pine I., *Ds* (Wood); Bronxville (Wood); **LI**: Yaphank, *Ds* (Wood). White oak.
- 1677 **C. cinctus** VanD. Ithaca, Je (EPV), type; Bronxville (Wood). White oak.

- 1678 *C. vau* Say (*sculptus* Fairm.). Albion, Conesus L., Aug (EPV); Rochester (Funk); Buffalo, Hamburg, Lancaster, Boston, Salamanca, Je-Aug (EPV); Olcott, *Dt* (Funk); Red House, *Not* (Wood); Ithaca (EPV, Funk); Caroline to Harford, Je (EPV-CU); Trumansburg (Funk); Cortland (Funk); Karner, Albany (Wood-NYS); Tivoli (Wood-NYS); Pine I., *Ds* (Funk); Bronxville (Wood); West Pt., *Ds* (Wood); Ft. Montgomery, *Schott* (Ols); NYC (Mtch); **LI**: E. Hampton (Funk); Central Pk. (Ols); Bay Shore, *Ols* (Funk); Farmingdale, *Morrow* (Funk). White, red, chestnut, and scarlet oak.
- *C. pulchellus* Wood. Pine I., *Ds* (Wood); W. Nyack, *Ols* (Wood).
- *C. puritanus* Wood. **LI**: Yaphank, *Ols*, Half Way Hollow Hills, *Ds*, Central Pk., *Shoe*, Wyandanch, *Ols* (Wood).
- 1681 *C. maculifrontis* Emms. Rochester, *Wendt* (Ols); Portage, *Kngt* (Funk); Batavia, *Kngt* (Funk); Ithaca (Funk); Pine I., *Ds* (Wood); Bronxville (Wood); **LI**: West Hills, Wading R., Central Pk., Wyandanch, *Ds* (Wood).
- 1682 *C. pallidifrontis* Emms. Mt. Kisco (Wood-NYS); Rochester, *Wendt* (Wood); Red House, *Not* (Wood); Poughkeepsie (Wood-NYS); Pine I. (Wood); Nyack, *Ds* (Wood); W. Nyack (Ols); Bronxville (Wood); **LI**: Rockaway Beach (Ols); E. Hampton, *Ds*, Central Pk., *Ols*, Kings Pk. (Wood); Yaphank (Wood).
- *C. gramatanus* Wood. Pine I., *Ds* (Wood); Bronxville (Wood); **SI** (Wood).
- 1683 *C. intermedius* Emms. Mt. Whiteface, *Ds* (Wood); Wells, *Yg* (Wood); Rochester, *Moore* (EPV); Buffalo, Hamburg, Gowanda (EPV); Batavia, *Ds* (Wood); Ithaca (Funk); Salem, *Jl* (Ball); Bronxville (Wood); **SI** (Wood); **LI**: Yaphank, *Ds*, Bay Shore, *Ols* (Wood).
- 1684 *C. inermis* Emms. Colden, Hamburg, Salamanca, *Jl*-Aug (EPV); Ithaca (Funk); **LI**: Farmingdale, *Morrow* (Funk); Wading R., *Ds* (Wood); Central Pk. (Ols).
- 1685 *C. griseus* VanD. Genesee Co, Batavia, *Ds* (Wood).
- 1686 *C. cinereus* Emms. Batavia, *Kngt* (Funk); Buffalo, Je (EPV); Ithaca (EPV, Funk); **LI**: E. Hampton (Funk). Oak.
- *C. rufulus* Wood. **SI**, *Ds* (Wood); **LI**: Central Pk., *Ds*, Wyandanch, *Schott* (Wood).
- *C. parvulus* Wood. Karner (Wood-NYS), paratypes; **LI**: Massapequa, *Ds*, Bay Shore, *Ols*, Central Pk., *Shoe* (Wood). *Quercus prinoides*.
- 1687 *C. fuscipennis* VanD. Batavia, *Kngt* (Funk); Buffalo, Je (EPV); Red House, *Not* (Wood); Ithaca (EPV, Funk); Albany, Lansingburg (Wood-NYS); West Pt., *Ds*, Pine I. (Wood); Ft. Montgomery, *Ds* (Wood); Bronxville (Wood); **SI**, *Ds* (EPV, Wood); **LI**: Deep Pond, *Ds*, Bay Shore, Rockaway, Maspeth, *Ols* (Wood). Oak.
- *C. flavolatus* Woodr. **LI**: Half Way Hollow Hills, *Ds* (Wood).
- 1688 *C. maculatus* Buckt. "NY" (Buckt).
- *C. dixianus* Wood. Rochester Jct., *Leon* (Funk).

(Subgenus **ATYMNA** Stål)

- 1690 *C. castaneae* Fitch. Gloversville, Ap (NYS); Olcott, *Dt* (Funk); Buffalo, Boston, Jamestown, Gowanda, Salamanca, *Jl*-Aug (EPV); Springwater, *Not* (Wood); Red House, *Not* (Wood); Rock City, *Kngt* (Funk); Freeville, *Jl* (EPV-CU); Ithaca (EPV, Funk); Karner,

Poughkeepsie (NYS); Slide Mt., *Ds* (Wood); Ft. Montgomery (Wood); Slide Mt., *Ds* (Wood); Westchester Co (Wood); **SI**, *Ds* (Wood); **LI**: Maspeth, *Ols* (Wood). Scrub oak, chestnut, white oak.

**C. castaneae** var. *viridis* Emms. Olcott, *Dt*, Ithaca (Funk). Woodruff regards *viridis* as a color form of *castaneae*.

- 1690a **C. castaneae** var. *lineatus* Buckt. Hamburg, Gowanda, J1-Aug (EPV).  
 1691 **C. helena** Wood. L. Keuka, *Cy* (Funk); Bronxville, Je (Wood); **LI**: Farmingdale, *Morrow* (Funk). *Quercus bicolor*.  
 1692 **C. querci** Fitch. Hastings, *Ds* (Wood); Rochester Jct., *Leon* (Funk); Niagara Falls, Aug (EPV); Boston, Gowanda, Salamanca, J1-Aug (EPV); Portage, *Kngt* (Funk); Attica (Funk); Red House, *Not* (Wood); Trumansburg, Ithaca, Cortland (Funk); Binghamton (Funk); Karner, Albany (NYS); Salem, J1 (Ball); Poughkeepsie (Wood-NYS); West Pt., *Ds* (Funk); Pine I. (Wood); Southfields (Wood); Bronxville (Wood); **SI**, *Ds* (Wood); **LI**: Yaphank (Wood); Central Pk., *Ds*, Bay Shore, Kissena Pk., Hempstead, *Ols* (Wood); Wyandanch, *Schott*, Coram, *Eng*, Wading R. (Wood). Scrub, white, and chestnut oak.  
 1693 **C. inornata** Say. Batavia, *Kngt*, Ithaca, *Plunk* (Funk); Gowanda, Aug (EPV-CU); Poughkeepsie (NYS); **LI**: Brooklyn (Funk). White oak, hickory.

#### XANTHOLOBUS VanDuzee

- 1695 **X. muticus** Fab. Rochester, *Wendt* (Wood); Rochester Jct., *Leon* (Funk); Batavia, *Kngt* (Funk); Buffalo, Je (EPV); Conesus L., *Ds* (Wood); Portage, *Kngt* (Funk); Ithaca (EPV, Funk); Nassau (Wood-NYS); Bronxville, Pine I. (Wood); **SI**, *Ds* (EPV); **LI**: Maspeth, *Ols* (Wood). Oak.  
 1696 **X. lateralis** VanD. Rochester, *Wendt* (Wood); Ithaca (EPV-CU).  
 1698 **X. nitidus** VanD. **SI**, *Ds* (EPV); **LI**: Bay Shore, *Ols* (Wood).

#### OPHIDERMA Fairmaire

- 1700 **O. salamandra** Fairm. Mt. Whiteface, *Ds* (Wood); Rochester, *Wendt* (Wood); Olcott, *Dt* (Funk); Buffalo, Je (EPV); Ithaca (CU); Albany (NYS); Slide Mt., *Ds* (Wood); Bronxville (Wood); **LI**: Kings Pk. (Wood); Rockaway, *Ols* (Wood). Oak.  
 1701 **O. pubescens** Emms. (*flaviguttula* Goding). Albion, Aug (EPV); Rochester, *Wendt* (Wood); Olcott, *Dt* (Funk); Fulton, Je (EPV-CU); Ithaca (CU); Caroline to Harford, Je (EPV-CU); Slide Mt., *Ds* (Wood); Bronxville (Wood); **SI**, *Ds* (Wood); **LI**: Farmingdale, *Morrow* (Funk); Wading R. (Wood); Bay Shore, *Ols*, Wyandanch, *Schott* (Wood). White oak.  
 1703 **O. flavicephala** Goding. Ithaca, Je-J1 (EPV, Funk); **SI**, *Ds* (Wood); **LI**: Wyandanch, *Schott*, Farmingdale, *Morrow* (Funk); Bay Shore (*Ols*, Wood).  
 1704 **O. flava** Goding. Mt. McIntyre, summit, *Bronson&Chrisp* (Wood-NYS); Mt. Whiteface, *Ds* (Wood); Woodworth, *Alex* (NYS); Ithaca (EPV, Funk); Albany (NYS); Bronxville (Wood); **SI**, *Ds* (EPV-CU).  
 — **O. definita** Wood. Mt. Whiteface, *Ds* (Wood); Hamburg, Aug (EPV), paratype; Ithaca (Funk); Bronxville, *Wood* (Funk); **SI** (Wood); **LI**: Yaphank (Wood). Red oak.

- *O. evelyna* Wood. Rochester, *Wendt* (Wood); Ithaca (Funk); Bronxville (Wood); **SI** (Wood); **LI**: Wading R., *Ds* (Wood). *Quercus velutina*.  
 — *O. grisea* Wood. Rochester Jct., *Leon*, *Olcott*, *Dt* (Funk). *Quercus coccinea*, *Q. rubra*.  
 — *O. fraterna* Gibson & Wells. "NY" (Gibson & Wells). This is the male of *flava* Goding (Wood).

## VANDUZZEA Goding

- 1709 *V. arcuata* Say. Rochester (Funk); Buffalo (EPV); Ithaca (EPV, Funk); Cortland, Binghamton (Funk); White Plains (Funk); Bronxville (Wood); **SI** (Wood); **LI**: Cold Sp. Harb., Sep (*Mtch*); Jamaica, *Ols*, Farmingdale (Funk); Yaphank (Wood); Mt. Vernon, Je; Wading R., *Ds* (Wood); Port Washington, Maspeth, North Beach, Flushing, Hempstead, Central Pk. (*Ols*),

## ENTYLIA Germar

- 1716 *E. carinata* Forst. (*bactriana* Germ.). Mt. Whiteface, Wilmington, Buffalo (Funk); Newport (Yg-NYS); Lake Bluff, L. Pleasant (NYS); E. Aurora, Hamburg, Colden, Lancaster, Lawtons, Clarence, Gowanda, Otto, Millville, Dryden L., Ithaca (EPV); Trumansburg, Binghamton (Funk); Trenton Falls, *Dbl* (Wlk); Albany, Nassau, Poughkeepsie, Stockport, Phoenicia, West Hills, Hoversville (NYS); Yonkers (*Ols*, Wood); NYC (*Mtch*); Bronx, *Mueller* (Funk); Bronx Pk., *Ols*, Van Cort. Pk. (Wood); **SI**, *Ols* (*Mtch*, Funk); **LI**: Queens (*Mtch*); Maspeth (*Ols*); Central Pk. (*Ols*). Thistle, joe-pye weed, sunflower.  
 1716a *E. carinata* var. *torva* Fitch. Lancaster, Lawtons, E. Aurora, Gowanda, Je-Oct (EPV).  
 1716b *E. carinata* var. *reducta* Wlk. Gowanda, Aug (EPV); Ithaca (Funk).  
 1717 *E. concisa* Wlk. Ithaca (Funk); **LI**: Yaphank, *Ols* (Funk).  
 1718 *E. sinuata* Fab. "NY" (Fitch).

## PUBLILIA Stål

- 1719 *P. concava* Say. Severance, *Bks*, and Becde's, Keene Val. (NYS); Ilion (NYS); Norwood, *Not* (Wood-AM); Rochester (*Wendt*); Medina, *LHWeld* (Funk); Sodus Pt., *Not* (Wood-AM); Batavia, *Kngt* (Funk); Oakfield, *Not* (Wood); Buffalo (EPV); Westfield (Wood-NYS); Otto, *Comst*, Cattaraugus (EPV-CU); Freeville, *Dt* (Funk); Ithaca (EPV, Funk); Slaterville to Caroline, (EPV-CU); Trenton Falls (NYS); Thacher Pk., *Bish* (Wood); Ravena, Nassau (NYS); New Baltimore, *Yg* (NYS); White Plains (Funk, *Ols*); W. Nyack, *Ols* (Wood); **LI**: Brooklyn (Funk). Goldenrod, skunk cabbage.  
 1719a *P. concava* var. *nigridorsum* Goding. Batavia, *Kngt* (Funk); Buffalo, Lancaster, Hamburg, E. Concord, Gowanda, May-Aug (EPV); Freeville, *Dt* (Funk); Ithaca (EPV, Funk); Dryden L., Je (EPV-CU).

## SUBFAMILY MEMBRACINAE

## CAMPYLENCHIA Stål

- 1734 *C. latipes* Say (*curvata* Stål). Keene Val. (NYS); L. Placid, *EPV* (NYS); Speculator, *Yg* (Funk); Potsdam, *Houghton* (*Ols*); Mt. Whiteface, Saranac L. (Funk); L. Champlain, *Bish* (Funk); near Ausable R.



(EPV); Cranberry L. (Osb); Rochester (Funk); Olcott, *Dt* (Funk); Medina, *LHWeld*, Rochester Jct., *Leon* (Funk); Batavia, *Kngt*, Albion (Funk); Thousand Isls.; Buffalo, Hamburg, Gowanda, J1-Aug (EPV); Otto (EPV); Ithaca, Cortland, Trumansburg, Binghamton (Funk); Trenton Falls (Wlk-Brit.Mus.); Washingtonville, Poughkeepsie, Slingerlands, North Cr., Conquest, Clinton Hgts., Rensselaer, Albany, Nassau (NYS); Pine I. (Wood); W. Nyack, *Ols* (Wood); Oliveria (Wood); Bronxville, Riverdale (Wood); White Plains (Osb); NYC (Mtch); Bronx, *Mueller* (Funk); **LI**: Maspeth, *Ols*, Flushing, *Plunk*, Brooklyn, Woodhaven (Funk); E. New York (Funk); Bay Shore, *Ols* (Wood); Port Washington, Hempstead, Wyandanch (Ols); Cold Sp. Harb. (Osb). Aster, daisy, joe-pye weed, alfalfa, prickly lettuce, wild carrot, *Helenium tenuifolium*.

#### ENCHENOPE Amyot and Serville

- 1735 **E. binotata** Say. Speculator, *Yg* (NYS); Rochester, *Moore* (EPV, Funk); Buffalo, Hamburg, Gowanda, J1-Aug (EPV); Otto, *Comst* (EPV-CU); Ithaca, J1-Aug (Funk, EPV-CU); Utica, Sep (Lint); Cheviot-on-Hudson (Lint); Schenectady, Glens Falls, Karner, and New Paltz (NYS); Watervliet Reservoir, *Leon* (NYS); Scarsdale (Funk); White Plains (Funk); W. Nyack (Ols, Wood); Bronxville (Wood); Central Pk., NYC (Mtch); **LI**: Maspeth, *Ols* (Funk); Flushing, Port Washington, Hempstead, Central Pk. (Ols); Kings Pk., *Bell* (Wood); Jamaica, *Wlf* (NYS). Locust, wild grape, bittersweet, hickory, sycamore, butternut, dogwood, daisy, joe-pye weed.

#### SUBFAMILY CENTROTINAE

##### MICROCENTRUS Stål

- 1747 **M. caryae** Fitch. Cranberry L. (Osb); Batavia, *Kngt* (Funk); Buffalo, Elma, Hamburg, Gowanda, Aug-Sep (EPV); Coy Glen, *Dt*, Ithaca (Funk); **SI** (Mtch, Ols); **LI**: Cold Sp. Harb., *Parsh* (Funk); Pine-lawn, Wyandanch (Ols); Queens (Mtch). Hickory, oak.
- 1748 **M. perdita** A. & S. Bronxville (Wood); **LI**: Yaphank (Wood); Flushing (Ols); Huntington, *Schott* (Ols).

#### FAMILY CICADELLIDAE <sup>21</sup>

##### (Jassidae)

#### SUBFAMILY BYTHOSCOPIINAE

##### AGALLIA Curtis

- 1762 **A. novella** Say. Axton, Je (M&H); Cranberry L. (Osb); L. Placid, Aug (EPV); Batavia, May-Aug *Kngt* (Ols); Buffalo and vic., May-J1 (EPV); Rock City, Je, *Kngt* (Ols); Ithaca, McLean, May-J1 (Buys); Oliveria, May, *Shoe* (Ols); Phoenicia (Osb); **LI**: Bay Shore, Yaphank, J1 (Ols).

<sup>21</sup> The list in the family Cicadellidae has been compiled from records, both published and unpublished, chiefly of E. P. Van Duzee, C. E. Olsen, E. D. Ball, J. L. Buys, D. M. DeLong, and Herbert Osborn. Apparently there is still some disagreement concerning the exact status of certain of the species, but the editor has attempted to harmonize the views of these specialists to the best of his ability.



- 1763 **A. oculata** VanD. Niagara Falls, Hamburg, Salamanca, Jl-Aug (EPV); Cranberry L. (Os b).
- 1764 **A. quadripunctata** Prov. Axton, Je (M&H); L. Placid, Aug-Sep (EPV); Cranberry L. (Os b); Rochester, Jl, *Wendt* (Os); Batavia, Je-Jl, *Kngt* (Os); Buffalo and vic., May-Aug (EPV); Grand I., Clarence, Colden, Hamburg, Lawtons, May-Aug (EPV); Lancaster, *EPV* (Lint); Portage, May, *Kngt* (Os); Rock City, Jl, *Kngt* (Os); Ithaca, Ap-Je (CU); McLean, Ringwood, May-Je (Buys); Labrador L., May (Buys); Olivera, Jl, *Shoe* (Os); White Plains, Je (Os); W. Nyack, May (Os); **LI**: Forest Pk., Jl, *Bno* (Os b); Jamaica, Cold Sp. Harb. (Os b); Maspeth, North Beach, Flushing, Yaphank, Wading R., May-Je (Os).
- 1765 **A. constricta** VanD. White Plains, May (Os); **SI**, May, *Ols* (EPV), Aug (EPV); **LI**: Maspeth, Forest Hills, Bay Shore, Hempstead, Winfield, May-Sep (Os); Cold Sp. Harb. (Os b); Sea Cliff (EPV-CU).
- **A. lingulata** Ols. W. Nyack, May 30, 1921 (Os).
- 1766 **A. deleta** VanD. (*immaculata* Lathrop). White Plains, May 2, 1915 (Os).
- 1767 **A. sanguinolenta** Prov. L. Placid, Aug (EPV); Cranberry L. (Os b); Batavia, May-Jl, *Kngt* (Os); Buffalo and vic., including Lancaster, Hamburg, N. Evans, Je-Oct (EPV); Phoenicia (EPV); Ithaca, May, *Morr* (Os b), Jl-Aug (Buys); Karner (Os b-NYS); Eagle Bridge, Nassau (Os b); White Plains, Yorktown Hgts., Je, Sep (*Ols*); Mosholu, Oct, *Bno* (Os b); **SI** (EPV); **LI**: Jamaica, Cold Sp. Harb. (Os b); Maspeth, Flushing, Central Pk., Bay Shore, Bayville, Hempstead, Flatbush, Forest Hills, Yaphank, May-Nov (*Ols*).

## IDIOCERUS Lewis

- 1776 **I. amabilis** Ball. Cranberry L. (Os b); Batavia, Aug, *Kngt* (Os); Salamanca, Jl (EPV); **LI**: Bay Shore, Yaphank, Jl (*Ols*).
- 1777 **I. nervatus** VanD. Albion, Aug (EPV); Lancaster, Hamburg, Jl-Aug (EPV); Albany (Os b-NYS); NYC, Southwick (EPV); **SI** (Os b).
- 1778 **I. pallidus** Fitch. L. Placid, Aug (EPV); Cranberry L. (Os b); Sodus Pt., Aug (Buys); Albion, Aug (EPV); Batavia, Jl-Aug, *Kngt* (Os b, Os); Buffalo and vic., including Hamburg, Jl-Aug (EPV); Chautauqua Co, Sep (*DeL*); Salamanca, Jl (EPV); Portage, Aug, *Kngt* (Os); Ithaca, Aug (Buys); Olivera, Aug, *Ang* (AM); Salem (Os b); White Plains, Je (*Ols*); W. Nyack, Jl (*Ols*); **SI**, Sep, *Ds* (Os); **LI**: Yaphank, Aug, *Ds*. Willow and poplar.
- 1779 **I. suturalis** Fitch. L. Placid, Aug (EPV); Cranberry L. (Os b); Keene Val., Aug, *Not* (Os); Batavia, Jl-Aug, *Kngt* (Os, Os b); Buffalo and vic., including Hamburg, Gowanda, Elma, Colden, Je-Sep (EPV); Chautauqua Co, Jl (*DeL*); McLean, Jl (*Buys*); Karner (Os b-NYS); Salem (Os b); Phoenicia (EPV). Willow.
- 1779a **I. suturalis** var. *lunaris* Ball. L. Placid, Aug (EPV); Batavia, Jl-Aug, *Kngt* (Os, Os b); Gowanda, Hamburg, Je-Aug (EPV); Chautauqua Co, Jl (*DeL*); Salamanca, Jl (EPV); McLean, Jl (*Buys*); Salem (Os b).
- 1779c **I. suturalis** var. *vagus* Ball. Hamburg, Salamanca, Jl-Aug (EPV).
- **I. subnitens** S. & D. Cranberry L. (Os b).
- 1780 **I. duzei** Prov. Lancaster, Jl (EPV).

- 1781 *I. alternatus* Fitch. L. Placid, Aug (EPV); Cranberry L. (Osb); Buffalo and vic., including Hamburg, May-Aug (EPV); Chautauqua Co, J1 (DeL); Ithaca, Ap-J1 (Buys); McLean, Ap, *Morr* (Osb); Salem (Osb). Willow.
- *I. formosus* Ball. Cranberry L. (Osb).
- 1782 *I. verticis* Say. Salem (Osb).
- *I. cognatus* Fieb. Chautauqua Co, J1 (DeL); LI: Winfield, Maspeth, Port Washington, Je-Sep (Ols). Introduced from Europe.
- 1793 *I. scurra* Germ. Buffalo, Oct (EPV); Ithaca (*Leon&Cy*); Bronx Pk., Aug, *Matausch* (EPV); LI: Brooklyn, Aug, *Schott* (Ols); Maspeth, Flushing, Aug-Sep (Ols). Poplar.
- 1795 *I. lachrymalis* Fitch. L. Placid, Aug (EPV); Cranberry L. (Osb); Keene Val., *Not* (Ols); Batavia, Je-Sep, *Kngt* (Ols, Osb); Portage, Je, *Kngt* (Ols); Hamburg, Lancaster, Elma, Gowanda, Je-Aug (EPV); Chautauqua Co, J1 (DeL); Ithaca, Aug, McLean, J1, Taughannock Falls, J1 (Buys); Atwater, J1 (Buys); Salem (Osb); Phoenicia (EPV); LI: Bay Shore, J1 (Ols). Poplar.
- 1797 *I. snowi* G. & B. Lancaster, Aug (EPV).
- 1800 *I. crataegi* VanD. Niagara Falls, Aug (EPV); Buffalo and vic., including Lancaster, Hamburg, J1-Sep (EPV); Chautauqua, May, Salamanca, J1 (EPV); Conesus L., Aug (EPV); Ithaca, Aug (Buys). *Crataegus*.
- 1801 *I. provancheri* VanD. BLACK APPLE-LEAF HOPPER. L. Placid, Aug (EPV); Cranberry L. (Osb); Severance (Osb-NYS); Oswego (Leon); Newark (Leon); Wolcott (Mat); Williamson (Cy); Spencerport (Cy); Honeoye Falls, Rochester Jct. (Leon); Holley (Cy); Batavia, Je-J1, *Kngt* (Osb, Ols); Buffalo and vic., including Lancaster (EPV); Penn Yan (Cy); Ithaca (Leon); McLean, J1 (Buys); Ulster Co, J1 (Ols); Kinderhook, Stuyvesant Falls (Cy); LI: Babylon (Leon); Fishers I., Aug, *Zab* (AM). Apple, quince, pear.
- 1802 *I. fitchi* VanD. Batavia, Aug, *Kngt* (Ols); Buffalo, Hamburg, Salamanca, J1-Aug (EPV); White Plains, Je (Ols); W. Nyack, Je (Ols); Mosholu, *Bno* (Osb); LI: Hempstead, Sep (Ols).

## MACROPSIS Lewis

(*Pediopsis* Burmeister)

- 1806 *M. reversalis* O. & B. Colden, EPV (O&B).
- 1807 *M. gleditschiae* O. & B. Chautauqua Co, Je (DeL); White Plains, Je (Ols); LI: Yaphank, J1 (Ols).
- 1808 *M. virescens* Gmel. var. *graminea* Fab. Hamburg, Lancaster, J1-Aug (EPV); Salem, Aug (Osb). Willow.
- 1809 *M. viridis* Fitch. L. Placid, Aug (EPV); Cranberry L. (Osb); Batavia, Je-J1, *Kngt* (Ols); Buffalo, Hamburg, Colden, Elma, Gowanda, Je-Aug (EPV); Chautauqua Co, Je (DeL); Salamanca, J1 (EPV); Ithaca, Aug (CU), Je (Buys); Karner (Osb-NYS); Salem, Aug (Osb); LI: Flushing, J1 (Ols). Willow.
- 1811 *M. suturalis* O. & B. Colden, EPV (O&B); Hamburg, J1 (EPV); Chautauqua Co, Je (DeL); Ringwood, Je (Buys).
- 1812 *M. crocea* O. & B. Hamburg, J1 (EPV).

- 1815 **M. basalis** VanD. Cobble Hill, Adirondacks, Aug (EPV); Cranberry L. (Os); Batavia, Je-Jl, *Kngt* (Ols); Colden, Elma, Hamburg, Lancaster, Je-Jl (EPV); Salamanca, Aug (EPV). Aspen.
- 1817 **M. canadensis** VanD. L. Placid, Aug (EPV); Cranberry L. (Os); Batavia, Jl-Aug, *Kngt* (Ols); Portage, Je, *Kngt* (Ols); Lancaster, Je (EPV-CU). Willow.
- 1818 **M. bifasciata** VanD. Axton, Je (M&H); Karner (Os-NYS); Salem (Os).
- 1819 **M. nigricans** VanD. Hamburg, Jl-Aug (EPV); Colden, Jl (EPV); Gowanda, Je (EPV). Poplar.
- 1821 **M. trimaculata** Fitch. Axton, Je (M&H); Sodus Pt., Sep (Buys); Batavia, Je-Aug, *Kngt* (Ols, Laws); Portage, Je, *Kngt* (Ols); Buffalo, Boston, Lancaster, Hamburg, Gowanda, Colden, Je-Aug (EPV); McLean (Buys); Highland, *Felt* (Os). Wild plum.
- 1822 **M. sordida** VanD. Cranberry L., *Htly* (Os & DeL); White Plains, Je (Ols).

## ONCOPSIS Burmeister

- 1824 **O. variabilis** Fitch. Cranberry L. (Os); Plattsburg, Jl, *Ds* (Ols); L. Tear, Jl, *Not* (Ols); Upper Ausable L., Jl, *Beq* (Ols); Fourth L., Je (Ols); Buffalo, Otto, Lancaster, Hamburg, May-Jl (EPV); Chautauqua Co (DeL); Gloversville (EPV); West Pt., Je, *Ds* (Ols); Bronxville, Je, *Wood* (Ols); **LI**: Bay Shore, Yaphank, Wyandanch, Jl (Ols). Birch.
- 1825 **O. sobrius** Wlk. Cranberry L. (Os); Genesee Co, Je, *Ds* (Ols); Niagara Falls, Colden, Lancaster, Salamanca, May-Jl (EPV); Chautauqua Co, Je (DeL); **SI**, Je, *Ds* (Ols); **LI**: Wyandanch, *Schott*; Bay Shore, Yaphank, Je-Jl (Ols). Birch.
- 1826 **O. cognatus** VanD. Plattsburg, Jl, *Ds* (Ols); Cobble Hill, Adirondacks, Aug (EPV); Cranberry L. (Os); Hamburg, Colden, Gowanda, Lancaster, May-Aug (EPV); Wyoming, Je, *Ds* (Ols); Ithaca, Ringwood, Je (Buys); Albany (Os); Phoenicia (Ols).
- 1827 ?**O. truncatus** Baker. Batavia, Je-Jl, *Kngt* (Ols).
- 1828 **O. fitchi** VanD. Cranberry L. (Os); Wilmington, Aug (WHBrittain); Buffalo, Hamburg, Colden, Boston, May-Aug (EPV); Wyoming Co, Je, *Ds* (Ols).
- 1829 **O. pruni** Prov. Cranberry L. (Os); Mt. Marcy, Jl, *Not* (Ols); Axton, Je (M&H); Upper Ausable L., Jl, *Beq* (Ols); Batavia, Je, *Ds* (Ols); Buffalo (EPV); Rock City, Jl (Kngt); Ellis, Ithaca, Je (Buys); Albany (Os); Olivera, Jl, *Shoe* (Ols); Bronxville, Jl, *Wood* (Ols); **LI**: Hempstead, Central Pk., Bay Shore, Maspeth, Yaphank, Je-Oct (Ols).
- 1830 **O. minor** Fitch. Upper Ausable L., Jl, *Beq* (Ols); Upper Ausable R., Aug (EPV); Cranberry L. (Os); Buffalo and vic., Je-Aug (EPV); Olivera, Jl, *Shoe* (Ols); W. Nyack, May-Je (Ols); **SI**: Richmond, Je, *Ds* (Ols); **LI**: Wading R., May (Ols).
- 1831 **O. nigrinasi** Fitch. Cranberry L. (Os); Batavia, Je-Aug, *Kngt* (Ols); Portage, Je, *Kngt* (Ols); Buffalo, Colden, Hamburg, Lancaster, Gowanda, Je-Aug (EPV); Salamanca, Jl, Rock City, Aug (EPV); **LI**: Flatbush, Je, *Zab* (AM). Hornbeam.

- 1832 **O. fagi** Fitch. Mt. Marcy, Jl, *Not* (Ols); Batavia, Je, *Kngt* (Ols); Catta-raugus, Je, *Kngt* (Ols); Ellis, Ithaca, Je (*Buys*); Oliverea, Jl, *Shoe* (Ols); Ft. Montgomery, Je, *Schott* (Ols).
- 1833 **O. distinctus** VanD. Buffalo, Lancaster, Hamburg, Jl-Sep (*EPV*); Chautauqua Co, Jl (*DeL*); Ft. Montgomery, Jl, *Schott* (Ols); Pine I., Je, *Ds* (Ols). Poplar.

## SUBFAMILY CICADELLINAE

## ONCOMETOPIA Stål

- 1846 **O. undata** Fab. Oswego (Osborne-NYS).
- 1847 **O. lateralis** Fab. Axton, Je (M&H); Adirondacks, *Brb* (Ols); Cranberry L. (Osborne); L. Placid, Aug (*EPV*); McLean, Aug (*Buys*).
- 1847a **O. lateralis** var. *limbata* Say. White Plains, Je 29, 1918 (*Ols*).

## AULACIZES Amyot and Serville

- 1851 **A. irrorata** Fab. **LI**: Cold Sp. Harb. (Osborne); Queens, Wyandanch, Je, Dec 25, under a stone, *Schott* (Ols); Pinelawn, Kings Pk., Je, *Bell* (Ols); Roslyn, Aug, *Ballou* (Ols).

## CICADELLA Latreille

- 1855 **C. gothica** Sign. Axton, Je (M&H); L. Placid, Aug-Sep (*EPV*); Keene Val. (Osborne); Cranberry L., *Htly* (Osborne & DeL); Rochester, Jl, *Wendt* (Ols); Batavia, May-Aug, *Kngt* (Ols); Colden, Lancaster, Gowanda, May-Sep (*EPV*); Rock City, Je, *Kngt* (Ols); Portage, May, *Kngt* (*EPV*-Ols); Ithaca, Je (*Buys*); Oliverea, Je, *Beq* (Ols); Phoenicia, *EPV* (Osborne); Karner (Osborne); Salem, Aug (Osborne); Clinton Hgts., Nassau (Osborne); Kingston, *EPV* (Osborne); W. Nyack, May-Oct (*Ols*); **LI**: Hempstead, Melville, Bay Shore, Wyandanch, Yaphank, May-Oct (Ols); Oyster Bay (Osborne).

## KOLLA Distant

- 1859 **K. bifida** Say. Keene Val. (Osborne-NYS), Aug, *Not* (Ols); Batavia, Jl, *Kngt* (Ols); Buffalo, Hamburg, Lancaster, Gowanda, Jl-Aug (*EPV*); Ithaca, Jl-Aug (*Buys*-CU); Oliverea, Aug, *Zab* (AM); Phoenicia, *EPV* (Osborne); Ballston L., Aug, *Leon* (NYS); L. George, Aug, *Zab* (AM); Salem (*Osborne*); Saugerties, Jl, *Brb* (Ols); W. Nyack, Jl (*Ols*); Bronxville, Jl, *Wood* (Ols); NYC, Sep, *Bno* (Osborne); **LI**: Jamaica, Cold Sp. Harb. (Osborne); Flatbush, Oct, *Zab* (Ols).

## HELOCHARA Fitch

- 1863 **H. communis** Fitch. L. Placid, Aug (*EPV*); Saranac Inn, Jl, *Ndm* (Osborne); Cranberry L. (Osborne); Sodus Pt., Aug (*Buys*); Rochester, Jl, *Wendt* (Ols); Batavia, Aug, *Kngt* (Osborne, Ols); Buffalo, Hamburg, Ap-Sep (*EPV*); Portage, May, *Kngt* (Ols); Ithaca, May-Je, *Kngt* (Ols, *Buys*); McLean, Ap, *Morr* (Osborne), May, Jl (*Buys*); Ringwood, Jl (*Buys*); Phoenicia (Osborne); Salem, Aug (Osborne); Karner, Albany, Nassau (Osborne-NYS); Eagle Bridge (Osborne); Kingston (Osborne-NYS); White Plains, May (Ols); W. Nyack, Je (*Ols*); **SI** (Osborne-NYS); **LI**: Flushing, Maspeth, Bay Shore, Huntington, Forest Hills, Wyandanch, Je-Sep (*Ols*). Juncus.

## GRAPHOCEPHALA Van Duzee

*(Diedrocephala Woodworth)*

- 1864 **G. coccinea** Forst. Ausable R., L. Placid, Aug-Sep (*EPV*); Saranac Inn, Keene Val., Wilmington (Osb); Cranberry L., *Htly* (Osb & DeL); Sodus Pt., Aug (*Buys*); Rochester, Jl, *Wendt* (Ols); Batavia, Je-Jl, *Kngt* (Osb); Buffalo, Hamburg, Gowanda, Jl-Aug (*EPV*); Portage, Aug, *Kngt* (Osb); Ithaca, Je-Jl (*Buys*); Salem (Osb); Albany, Nassau, Eagle Bridge (Osb); Poughkeepsie (Osb); W. Nyack, Je-Sep (Ols); Mosholu (Osb); **SI**, Jl (Osb, Ols); **LI**: Forest Pk., Oyster Bay (Osb); Flatbush, Je-Jl (*Buys*); Bay Shore, Forest Hills, Huntington, *Schott*, Flushing, Central Pk., Sea Cliff, Kings Pk., *Bell*, Cold Sp. Harb., *Brb*, Rockaway Beach, Queens, Yaphank, Je-Oct (Ols).
- 1864a **G. coccinea** var. *teliformis* Wlk. L. Placid, Sep (*EPV*); Boston, Gowanda, Aug (*EPV*); Trenton Falls (Wlk-Brit. Mus.); **LI**: Bay Shore, Jl, *Ols* (*EPV*).

## DRAECULACEPHALA Ball

- 1873 **D. angulifera** Wlk. Batavia, Aug, *Kngt* (Ols); Ithaca, Je-Sep (Ols, *Buys*); McLean Bogs, May, Jl (*Buys*); Nyack, Aug, *Zab* (AM); **LI**: Flushing, Winfield, Maspeth, Je-Sep (Ols).
- 1874 **D. mollipes** Say. Axton, Je (M&H); L. Placid, Aug (*EPV*); Cranberry L. (Osb); Sodus Pt., Aug (*Buys*); Batavia, Je-Aug, *Kngt* (Ols, Osb); Buffalo, Hamburg, Colden, May-Sep (*EPV*); Portage, Je, *Kngt* (Ols); Rock City, Je, *Kngt* (Ols); Ithaca and vic., Je-Oct, *div.* (CU); McLean Bogs, May, Jl (*Buys*); Ringwood, Jl (*Buys*); Phoenicia (*EPV*); Trenton Falls (Wlk); Salem (Osb); Karner, Albany, Nassau, Eagle Bridge (NYS); Poughkeepsie (NYS); White Plains, May (*Ols*); NYC, *Bno* (Osb); **SI**, May (Osb, Ols); **LI**: Sea Cliff (*EPV-CU*); Jamaica, Cold Sp. Harb. (Osb); Maspeth, Flushing, Bay Shore, Rockaway Beach, Little Neck, Huntington, *Schott*, North Beach, Yaphank, Ap-Jl (Ols).
- 1875 **D. minor** Wlk. Buffalo and vic. (*EPV*) (as *D. mollipes* var. *producta* Wlk.).
- 1877 **D. manitobiana** Ball. Batavia, Aug, *Kngt* (Ols).
- 1879 **D. noveboracensis** Fitch. L. Placid, Aug (*EPV*); Keene Val. (Osb); Cranberry L. (Osb); Piseco L. (Osb); Albion, Aug (*EPV*); Honeoye Falls, *Leon* (*Buys*); Batavia, Jl, *Kngt* (Ols); Squaw L., Niagara R. (*EPV*); Buffalo, Elma, Colden, Hamburg, Je-Aug (*EPV*); Otto, Jl (Uhl-CU); Portage, Aug, *Kngt* (Osb); Ithaca, Je-Sep (CU); McLean, Jl, *Buys* (Ols); Salem (Osb); Nassau (Osb); Carmel, Aug, *Buys* (Ols); **LI**: Cold Sp. Harb., Jl, *Brb* (Osb, Ols); Wyandanch, Aug (Ols).

## PAGARONIA Ball

- 1883 **P. tripunctata** Fitch. Gowanda, Aug (*EPV*); Ithaca (CU); Phoenicia, Aug (*EPV*); Salem, Aug (Osb); Albany (Osb); Saugerties, Jl, *Brb* (Ols); White Plains, Je (Ols); W. Nyack, Oct (Ols); Mosholu (Osb); **SI** (Osb); **LI**: Jamaica, Cold Sp. Harb. (Osb); Sea Cliff (*EPV-CU*); North Beach, Glen Head, Wyandanch, Je-Sep (Ols).

## EVACANTHUS LePeletier and Serville

- 1884 **E. acuminatus** Fab. Cranberry L. (Osb); Mt. Whiteface, Cobble Hill, Aug (*EPV*); Batavia, Je, *Kngt* (Ols); Niagara Falls, Aug (*EPV*); Lancaster, Gowanda, Jl-Aug (*EPV*); Salamanca, Jl (*EPV*); Chautauqua Co, Jl (DeL); Oliverea, Jl, *Shoe* (Ols); Slide Mt., Debruce, Aug-Sep (AM).



## SUBFAMILY GYPONINAE

## PENTHIMIA Germar

- 1894 *P. americana* Fitch. Rochester, Jl, *Wendt* (Ols); Batavia, Je, *Kngt* (Osb); Buffalo and vic., May-Jl (*EPV*); Portage, May, *Kngt* (Osb); Ft. Montgomery, Jl, *Schott* (Ols); W. Nyack, May (Ols); **LI**: Wyandanch, *Schott*, Pinelawn, Yaphank, Wading R., May-Jl (Ols).

## GYPONA Germar

- 1896 *G. rugosa* Spångb. Grand I., Sep (*EPV*); Niagara Falls, Aug (*EPV*); Buffalo, Aug (*EPV*); W. Nyack, Oct (Ols); **LI**: Flushing, Oyster Bay, Bay Shore, Hempstead, Huntington, Wyandanch, Aug-Sep (Ols). Oak.
- 1897 *G. octolineata* Say. Cranberry L. (Osb); Keene Val., Aug, *Not* (Osb, Ols); Hope (Osb); Sodus Pt., Jl (Buys); Batavia, Jl-Sep, *Kngt* (Osb, Ols); Niagara Falls, Oct (*EPV*); Portage, Aug, *Kngt* (Ols); Buffalo, Lancaster, Hamburg, Aug-Oct (*EPV*); Ithaca, Aug, Sep (Ols, Buys); Karner (Osb); Salem (Osb); W. Nyack, Je-Sep (Ols); Dunwoodie, Oct, *Ang* (Ols); NYC, Sep (Osb, Ols); **LI**: Jamaica (Osb); Flushing, Maspeth, Bay Shore, Hempstead, Pinelawn, Port Washington, Glen Head, Wyandanch, Yaphank, Pennequid Barrens, *div.* (Ols).
- 1913 *G. octolineata* var. *geminata* Osb. (teste Ball). Sodus Pt., Aug (*Buys*); Hamburg, Sep (*EPV*); Ithaca, Jl-Aug (*Buys*); **LI**: Oyster Bay (Osb), types.
- 1898 *G. octolineata* var. *cana* Burm. Elma, Hamburg, Gowanda, Salamanca, Je-Aug (*EPV*).
- 1899 *G. octolineata* var. *quebecensis* Prov. Isham House, Adirondacks, Aug (*EPV*); Buffalo, Hamburg, Jl (*EPV*).
- 1904 *G. octolineata* var. *striata* Burm. Buffalo, Lime L., Hamburg, Gowanda, Salamanca, Jl-Aug (*EPV*); **LI**: Sea Cliff (*EPV-CU*).
- 1906 *G. melanota* Spångb. (*bipunctulata* Woodw.). Gowanda, Aug (*EPV*); Ithaca, Aug-Sep (*EPV*, *Buys*); Mosholu (Bno); **SI** (Bno); **LI**: Maspeth, Aug (Ols).
- 1907 *G. verticalis* Stål (*bimaculata* Spångb. teste Ball). White Plains, Pelham Pk., NYC, Sep, *Ang* (Ols). Both records are with the query that they may refer to *melanota* Spångb.
- 1923 *G. scarlatina* Fitch. Buffalo and vic., Jl-Aug (*EPV*); Ft. Montgomery, Je, *Schott* (Ols); **LI**: Maspeth, Aug, *Schott* (Ols).
- 1920 *G. scarlatina* var. *puncticollis* Spångb. (*albesignata* Uhl.). Niagara Falls, Hamburg, Aug (*EPV*); Batavia, Aug, *Kngt* (Ols); NYC, Sep, *Ang* (Ols).
- 1917 *G. scarlatina* var. *pectoralis* Spångb. Hamburg, Jl, Gowanda, Aug (*EPV*); Ithaca, Jl (*Buys*); Bronx Pk., Aug (Ols).
- 1925 *G. sanguinolenta* Spångb. **LI**: Bay Shore, Jl (Ols).

## XEROPHLOEA Germar

- 1930 *X. viridis* Fab. Rock City, Jl, *Kngt* (Ols); Kingston (*EPV*); Mosholu, Jl (Osb); **LI**: Sea Cliff (*EPV-CU*).
- 1931 *X. major* Bak. White Plains, May (Ols); W. Nyack, Ap-Je (Ols); Mosholu (Osb); **LI**: Flushing, Bay Shore, Jl (Ols); Cold Sp. Harb. (Osb); Wading R., Je, *Schott* (Ols).

## SUBFAMILY JASSINAE

## STROGGYLOCEPHALUS Flor

- 1932 *S. agrestis* Fall. E. Concord, May (*EPV*); Ithaca, May (*Buys*).

## ACUCEPHALUS Germar

- 1933 *A. nervosus* Schrank. Cranberry L. (Osb); Johnstown, Aug, *Alex* (*EPV*); Batavia, J1, *Kngt* (Ols); Ithaca, Aug, Ringwood, J1 (*Buys*).
- 1935 *A. flavostrigatus* (Donov.). Indian L., near Sabael, Aug, *Brb* (Ols); Eagle Bridge, Aug (*Osb*); Phoenicia, Aug, *EPV* (*Osb*).
- 1936 *A. albifrons* (L.). Cranberry L. (Osb); Wells, J1, *Yg* (Ball-NYS); Rochester, *Moore* (*EPV*); Conesus L., Buffalo, Lancaster, Colden, Hamburg, Portage, Gowanda, J1-Aug (*EPV*); Ithaca, J1-Aug (*Buys*, Baker, *EPV*-CU); Phoenicia, *EPV* (Osb); Salem (*Osb*); White Plains, Je (*Ols*); NYC (Southwick); **LI**: Cold Sp. Harb., *Brb* (Osb) (Bul. 97, NYSMus); Queens, Aug, Maspeth, Je, Aug, Flushing, J1, Sep, Winfield, Sep, Bay Shore, J1, Rockaway Beach, Aug (*Ols*); Kings Pk., *Bell* (Ols); North Beach, J1, *Schott* (Ols); Sea Cliff (*EPV*-CU).
- 1937 *A. placidus* Prov. W. Nyack, Ap (Ols).

## XESTOCEPHALUS Van Duzee

- 1940 *X. pulicarius* VanD. Cranberry L. (Osb); L. Placid, Sep, Hamburg, Sep, Buffalo, Je-Sep, Elma, Je, Stamford, Aug (*EPV*); Lancaster, Colden, Aug (*EPV*-CU); Chautauqua Co, J1-Aug (*DeL*); Ithaca, J1-Aug (*Buys*, Baker-CU); Phoenicia, *EPV* (Osb); NYC, Aug, *Southwick* (*EPV*-CU); **LI**: Sea Cliff (*EPV*-CU); Jamaica, Aug (Osb).
- 1941 *X. superbus* (Prov.) (*fulvocapitatus* VanD.). Hamburg, Aug (*EPV*); Lancaster, Aug (*EPV*-CU); W. Nyack, Sep (Ols).
- 1944 *X. nigrifrons* Osb. W. Nyack, Je-Sep (Ols); Cranberry L. (Osb).
- 1945 *X. brunneus* Osb. Hamburg, J1 (*EPV*); Batavia, May, *Kngt* (Dickerson).

## NIONIA Ball

- 1946 *N. palmeri* (VanD.). Stony Pt., Je, *Ds* (Ols); White Plains, Je (*Ols*); W. Nyack, Je (*Ols*); Yonkers, Oct, *Ang* (Ols); **LI**: Forest Pk., *Bno* (Osb); Sea Cliff (*EPV*).

## HECALUS Stål

- 1952 *H. lineatus* (Uhl.). "NY" (VanD. Cat.).

## SPANGBERGIELLA Signoret

- 1953 *S. vulnerata* Uhl. "NY" (Osb, Baker-US).

## PARABOLOCRATUS Fieber

- 1955 *P. viridis* Uhl. Cranberry L. (Osb); Rochester, *Wendt* (Ols); Niagara Falls, Je, Hamburg, May-Je, Buffalo, Je (*EPV*); Batavia, Je, *Kngt* (Laws); Chautauqua Co, Je (*DeL*); Ithaca, Je (*Buys*); Mud Cr., Tompkins Co, Je (*Buys*); White Plains (*Ols*); **LI**: Jamaica, *EPV* (Bul. 97, NYSMus); Maspeth, Ap-Sep (*Ols*); Flushing, J1, Rockaway Beach (Ols).
- 1956 *P. major* Osb. Cranberry L. (Osb); Wyoming, Je, Cattaraugus Co, J1, *Kngt* (Ols).

## MESAMIA Ball

- 1975 **M. vitellina** Fitch. Cranberry L. (Osb); Cobble Hill, Niagara Falls, Lancaster, Elma, Buffalo, Gowanda, Salamanca, Je-Aug (EPV).

## SCAPHOIDEUS Uhler

- 1980 **S. sanctus** Say. **LI**: Cold Sp. Harb., *Brb* (Osb).  
 1982 **S. cruciatus** Osb. **LI**: Cold Sp. Harb., *Brb* (Osb).  
 1983 **S. auronitens** Prov. Cranberry L. (Osb); Albion (Osb); Hamburg, Niagara Falls, Lancaster, Elma, Buffalo, Stamford, Gowanda, Je-Sep (EPV); Chautauqua Co, Jl-Aug (DeL); Ithaca, Aug (Buys); Albany (Osb); Phoenicia (EPV); W. Nyack, Sep (Ols); **SI**: Jl (Ols); Clove Val., Jl (Osb-AM); **LI**: Cold Sp. Harb., *Brb* (Osb); Maspeth, Aug, Port Washington, Sep, Ols (EPV); Hempstead, Sep, Kissena Pk., Oct, Forest Hills, Sep (Ols); Sea Cliff, Aug (Ols, EPV-CU); Flatbush, Sep (Osb-AM); Jamaica, Aug (EPV, Osb).  
 1984 **S. jucundus** Uhl. Lancaster, Aug (EPV); Karner, Aug (Osb-NYS); **LI**: Hempstead, Jl, Maspeth, Je (Ols).  
 1985 **S. unicolor** Osb. **SI** (Osb).  
 1987 **S. consors** Uhl. Boston, Gowanda, Aug (EPV); Olivera, Sep, *Dickerson* (AM).  
 1988 **S. scalaris** VanD. Cranberry L. (Osb); Ithaca, Aug (Buys); Phoenicia (EPV); W. Nyack, Aug (Ols).  
 1989 **S. lobatus** VanD. Cranberry L. (Osb); Lancaster, Sep, *WJPalmer Jr* (EPV-CU); Hamburg, Oct, *MCV* (EPV, Osb); Boston, E. Aurora, Aug-Sep (EPV); Gowanda, Aug (EPV, Osb); Chautauqua Co, Aug (DeL); Ithaca, Aug (Buys, Osb); Poughkeepsie (Osb); Mosholu (Osb); Bryn Mawr Pk., Sep (AM); NYC, *Southwick* (EPV); **LI**: Jamaica, Cold Sp. Harb. (Osb); Kissena Pk., Flushing, Maspeth, Aug (Ols); Waterworks, Flatbush, Oct, Lott Wood, Flatbush, Aug-Sep, *Zab* (Osb-AM).  
 1990 **S. ochraceus** Osb. Cranberry L., Aug (O&D); Batavia, Jl, *Kngt* (Ols); Rochester, Oct, Colden, Jl (EPV); Buffalo, Aug (EPV, Osb); Gowanda, EPV (Osb); W. Nyack, Je (Ols); **LI**: North Beach, Jl (Ols).  
 1991 **S. productus** Osb. Cranberry L. (Osb); Mt. Whiteface, Aug (DeL); Hamburg, E. Aurora, Gowanda, Aug (EPV); **LI**: Cold Sp. Harb., Jl, *Brb* (Osb); Sea Cliff (EPV-CU).  
 1992 **S. carinatus** Osb. Hamburg, Jl, EPV (Osb); Gowanda, Aug, Ithaca, Jl-Aug (EPV); **LI**: Cold Sp. Harb., *Brb* (Osb); Bay Shore, Jl (Ols).  
 1994 **S. intricatus** Uhl. "NY", Aug, EPV (Osb); **LI**: Maspeth, Aug (Ols); Wyandanch, Sep, *Schott* (Ols).  
 1995 **S. luteolus** VanD. Hamburg, Jl (EPV); near NYC, Jl-Aug, *Southwick* (EPV); **SI**, Jl (Ols).  
 1996 **S. immistus** Say. Keene Val., Aug, *Not* (Ols); Cranberry L. (Osb); L. Placid, Aug (EPV); Sodus Pt., Aug (Buys); Lancaster, Jl, EPV (Lint); Batavia, Jl, *Kngt* (Osb, Ols); Niagara Falls, Hamburg, Buffalo, E. Aurora, Gowanda, Salamanca, Jl-Aug (EPV); Chautauqua Co, Jl (DeL); Ithaca, Jl (Buys); Karner (Osb); Phoenicia (EPV); Kingston (EPV); Eagle Bridge, Salem (Osb); W. Nyack, Aug, Yorktown Hgts., Sep (Ols); **LI**: Cold Sp. Harb., Jamaica (Osb);

Bay Shore, Jl, *Ols* (EPV); Hempstead, Aug-Sep, Wyandanch, Aug, Maspeth, Aug, Flushing, Jl, Sep (*Ols*); Flatbush, Jl, *Zab*, Kissena Pk., Aug (Osb-AM).

1996a **S. immistus** var. **minor** Osb. Batavia, Aug, *Kngt* (*Ols*); Lancaster, Hamburg, Aug (EPV); **LI**: Bay Shore, Aug, *Ols* (EPV); Wyandanch, Aug (*Ols*).

1996b **S. immistus** var. **major** Osb. Boston, Gowanda, Aug (EPV).

1998 **S. obtusus** Osb. Lancaster, Hamburg, Aug-Sep (EPV); **LI**: Bay Shore, Jl, Flushing, Je (*Ols*).

2000 **S. opalinus** Osb. Gowanda, Aug (EPV); **LI**: Cold Sp. Harb., on red cedar (Osb).

#### PLATYMETOPIUS Burmeister

2008 **P. hyalinus** Osb. Yonkers, Jl, Nyack, Aug (*Ols*).

2014 **P. acutus** Say. Cranberry L. (Osb); L. Placid, Aug (EPV); Sodus Pt., Aug (*Buys*); Batavia, Je-Aug, *Kngt* (Laws-EPV); Wyoming Co, Je, *Kngt* (*Ols*); Hamburg, Colden, Lancaster, Buffalo, Gowanda, Salamanca, Je-Aug (EPV); Chautauqua Co, Jl-Aug (*DeL*); Ithaca, Je, McLean, Jl (*Buys*); Karner, Felt (Osb); Phoenicia, EPV (Osb); Olivera, Jl, *Shoe* (*Ols*); Salem, Eagle Bridge (Osb); Kingston, EPV (Osb); W. Nyack, Je, Oct (*Ols*); **SI**, Aug (*Ols*); **LI**: Cold Sp. Harb., Jamaica (Osb); Maspeth, Je, Sep-Oct, Bay Shore, Jl, Sep, Rockaway Beach, Jl, Canarsie, Sep, Hempstead, Jl, Sep, Flushing, Jl, Sea Cliff, Aug (*Ols*); Huntington, Sep, *Schott* (*Ols*).

2014a **P. acutus** var. **dubius** VanD. Niagara Falls, Hamburg, Elma, Salamanca, Jl-Sep (EPV); Ft. Montgomery, Sep, *Schott* (*Ols*); **LI**: Bay Shore, Jl (*Ols*).

— **P. acutus** var. **cinnamoneus** Osb. Cranberry L. (Osb).

2017 **P. cuprescens** Osb. Cranberry L. (Osb); Indian L., near Sabael, Aug, *Brb* (*Ols*); Niagara Falls (EPV); Chautauqua Co, Aug (*DeL*); Salamanca, Jl (EPV); McLean, Jl (*Buys*); Phoenicia, EPV (Osb); Ft. Montgomery, Sep, *Schott* (*Ols*); **LI**: Sea Cliff (EPV-CU).

2020 **P. angustatus** Osb. **LI**: Cold Sp. Harb., Aug, on pine (Osb); Oyster Bay, Aug (Osb); Bay Shore, Sep (*Ols*).

2021 **P. fulvus** Osb. Colden, Gowanda, Salamanca, Phoenicia, Jl-Aug (EPV); **LI**: Cold Sp. Harb., Jl-Aug (EPV); Oyster Bay (Osb).

2023 **P. frontalis** VanD. Niagara Falls, Buffalo, Hamburg, Je-Sep (EPV); Chautauqua Co, Je-Jl (div.-CU); Ithaca, Je (*Buys*); Karner, Nassau (Osb); Poughkeepsie, Phoenicia (Osb); Kingston (EPV); Salem (Osb); White Plains, Je, W. Nyack, Oct (*Ols*); Moshulu, NYC (Osb); **SI** (EPV); **LI**: Jamaica, Cold Sp. Harb., Nassau Co (Osb); Maspeth, Flushing, Hempstead, Newtown Hgts., Huntington, Winfield, Bay Shore, Forest Hill, Yaphank, Sea Cliff, Bayville, Je-Sep (*Ols*).

2029 **P. magdalensis** Prov. (*obscurus* Osb.). Salamanca, Jl (EPV); Yorktown Hgts., Sep, W. Nyack, Oct (*Ols*); **LI**: Cold Sp. Harb., Aug, Pine-lawn, Je, *Ols* (Osb); Pinelawn, Wyandanch, *Ols* (Osb); Bay Shore, Maspeth, Forest Hill, Jl-Sep (*Ols*).

#### DELTOCEPHALUS Burmeister

**D. delector** S. & DeL. Cranberry L. (Osb).

2035 **D. areolatus** Ball. Vic. of NYC (Osb).

2041 **D. sandersi** Osb. **LI**: Sea Cliff (EPV-CU).



- 2042 *D. pictus* Osb. **SI** (Osb).
- 2051 *D. configuratus* Uhl. Axton, Je, *M&H* (EPV-CU); Cranberry L. (Osb); L. Placid, Aug (EPV-CU); Lancaster, Hamburg, Buffalo, Colden, Je-Aug (EPV); Chautauqua Co, Aug (DeL); Cattaraugus Co, Je, *Kngt*; Ithaca, Je, McLean Bogs, May (*Buys*).
- 2052 *D. ocellaris* Fallén. Cranberry L. (Osb); Mt. Marcy, Jl, *Not* (DeL).
- 2053 *D. sayi* Fitch. Axton, L. Placid, Je-Aug (EPV-CU); Cranberry L. (Osb); Albion, Lancaster, Buffalo, Hamburg, Gowanda, May-Aug (EPV); Batavia, May-Jl, *Kngt* (Ols); Chautauqua Co (DeL); Rock City, Jl, *Kngt* (Ols); Ithaca, Je-Aug (*Buys*, *Morr*); McLean, May (*Buys*); Karner, Phoenicia, Kingston, Poughkeepsie; Eagle Bridge, Salem (Osb); White Plains, Je, W. Nyack, May-Je (Ols); **SI** (Osb); **LI**: Cold Sp. Harb., Jamaica, Maspeth, Flushing, Winfield, Newtown Hgts., Port Washington, Bay Shore, Yaphank, North Beach, Forest Hills, Bayville, May-Sep (Ols).
- 2055 *D. weedi* VanD. Chautauqua Co, Jl (DeL).
- 2055½ *D. interruptus* DeL. Chautauqua Co (DeL); W. Nyack, Je, *Ols* (DeL).
- 2057 *D. obtectus* O. & B. Hamburg, Aug (EPV); Eagle Bridge (Osb); Chautauqua Co, Je (DeL); Salem (Osb).
- *D. misellus* Ball. Cranberry L. (Osb).
- 2059 *D. compactus* O. & B. L. Placid (EPV); Chautauqua Co, Je (DeL); Phoenicia (Osb); **SI** (Osb); **LI**: Cold Sp. Harb. (Osb).
- 2062 *D. apicatus* Osb. Cranberry L. (Osb); Mt. Whiteface, Hamburg, Gowanda, Aug-Sep (EPV); Chautauqua Co (DeL); Salem (Osb); W. Nyack, Je, *Ols*; **LI**: Forest Hills, Sep, *Ols* (DeL).
- 2063 *D. inimicus* Say. Cranberry L. (Osb); L. Placid (EPV); Sodus Pt., Aug-Sep (*Buys*); Batavia, Je-Aug, *Kngt* (DeL); Buffalo, Hamburg, Lancaster, Je-Aug (EPV); Portage, Aug, *Kngt* (Ols); Chautauqua Co, Je-Sep (DeL); Ithaca, Je-Aug, McLean Bogs, Jl (*Buys*); Karner, Kingston, Phoenicia; Nassau, Salem (Osb); White Plains, W. Nyack, Je, *Ols* (DeL); **SI** (Osb); **LI**: Cold Sp. Harb., Jamaica (Osb); Maspeth, Winfield, Flushing, Bay Shore, Sea Cliff, Je-Sep, *Ols* (DeL).
- 2065 *D. flavicosta* Stål. Batavia, Jl, *Kngt* (DeL); Lawtons (EPV); Eagle Bridge (Osb); Chautauqua Co, Jl (DeL); Eagle Bridge, Nassau, Salem (Osb); Yorktown Hgts., Sep, *Ols* (DeL); **LI**: Nassau Co, Cold Sp. Harb., Jamaica (Osb).
- 2071 *D. debilis* Uhl. L. Placid, Buffalo, Hamburg, Lancaster, Je-Aug (EPV).
- 2072 *D. abdominalis* Fab. Cranberry L. (Osb); Batavia, Je, *Kngt* (Ols); W. Nyack, Jl, Sep, *Ols* (DeL); **LI**: Cold Sp. Harb. (Osb); Maspeth, Je (Ols).
- 2073 *D. pascuellus* Fall. Cranberry L. (Osb); L. Placid, Sep (EPV); Batavia, Rock City, Jl, *Kngt* (Ols); Ithaca, Ringwood, Trenton Falls, Je-Jl (*Buys*); Phoenicia, Kingston, Aug (EPV); Salem, Eagle Bridge (Osb); **LI**: Cold Sp. Harb. (Osb).
- 2075 *D. melshiemeri* Fitch. Axton, Je, *M&H*, Cranberry L. (Osb); L. Placid, Buffalo, May-Aug (EPV-CU); Hamburg, Lawtons, Gowanda, Aug-Oct (EPV); Chautauqua Co, Aug 9 (DeL); Ithaca, Je (*Buys*); Eagle Bridge, Salem (Osb); W. Nyack, Je, *Ols* (DeL).
- 2082 *D. littoralis* Ball. **LI**: Sea Cliff (EPV-CU).
- 2083 *D. sylvestris* O. & B. Ausable R., Cobble Hill, Hamburg, Aug-Sep (EPV); Cranberry L. (Osb); Batavia, Je, *Kngt* (DeL); Chautauqua Co, Jl-Aug (DeL); W. Nyack, Je, *Ols* (DeL); **LI**: Maspeth, Je, *Ols* (DeL).



- 2089 **D. simplex** VanD. (*simplarius* O. & B.). **LI:** Astoria, JI, *Southwick*, Sea Cliff (EPV).  
 — **D. nominatus** S. & DeL. (*oculatus* O. & B.). Cranberry L. (Osb).  
 — **D. flavo-virens** G. & B. Cranberry L. (Osb).  
 2090 **D. osborni** VanD. Lancaster, Gowanda, Aug-Sep (EPV); Chautauqua Co, JI-Aug (DeL).  
 2097 **D. nigrifrons** Forbes. Lancaster, Hamburg, Phoenicia, Je-Sep (EPV).  
 — **D. acus** S. & DeL. Cranberry L. (Osb); Chautauqua Co, JI-Aug (DeL); **LI:** Bay Shore, JI, *Ols* (S&DeL).  
 2079 **D. striatus** L. (*affinis* G. & B.). Batavia, Je, *Kngt* (S&DeL); Niagara Falls, Buffalo, Hamburg, Salamanca, Je-Aug (EPV); Chautauqua Co, Je-Aug (DeL); Rock City, JI, *Kngt* (Ols); White Plains, Je, *Ols* (S&DeL); **LI:** Yaphank, Maspeth, May, *Ols* (DeL); Sea Cliff (EPV-CU).  
 — **D. nigriventer** S. & DeL. Cranberry L. (Osb).

## ACONURA Lethierry

- 2117 **A. acuticauda** Bak. Axton, Je, *M&H* (EPV); Cobble Hill, Aug (EPV).

## DRIOTURA Osborn and Ball

- 2126 **D. gammaroides** VanD. Hamburg, Mosholu (Osb); White Plains, W. Nyack, JI (Ols); **LI:** Bay Shore, JI (Ols); Cold Sp. Harb., Jamaica (Osb).  
 2126b **D. gammaroides** var. *fulva* Ball. **LI:** Hempstead, JI (Ols).

## EUSCELIS Brullé

- 2131 **E. obscurinervis** Stål (*exitiosus* Uhl.). "NY" (VanD. Cat.).  
 2132 **E. striolus** Fall. Cranberry L. (Osb); Batavia, JI, *Kngt* (Ols); Buffalo, Hamburg, Lancaster, Gowanda (EPV); Chautauqua Co, Aug (DeL); Phoenicia (EPV); Karner, Aug (Osb).  
 — **E. stactogalus** Fieb. (*Eutettix osborni* Ball). NYC, Sep (Ols, Ball); **SI:** Westerleigh, JI, *Bs* (Ols); **LI:** Maspeth, Je (Ols).  
 2133 **E. parallelus** VanD. McLean, JI (Buys).  
 2134 **E. extrusus** VanD. Cranberry L. (Osb); summit of Mt. Whiteface, Aug (EPV); Axton, Je, *M&H* (EPV-CU); Rock City, JI, *Kngt* (Laws); Oliverea, W. Nyack, May, JI (Ols); Mosholu, Sep (AM); **SI,** May (Ols); **LI:** Yaphank, Wading R., Bay Shore, Wyandanch, May-JI (Ols).  
 2136 **E. relativus** G. & B. Buffalo, Lancaster, JI (EPV).  
 2136<sup>3</sup> **E. deceptus** S. & DeL. Cranberry L. (Osb); Chautauqua Co, JI (DeL).  
 2138 **E. uhleri** Ball. Speculator, JI, *Yg* (Ball-NYS); Cranberry L. (Osb); L. Placid, Hamburg, Buffalo, Salamanca, Gowanda, May-Aug (EPV); Batavia, Aug, *Kngt* (Ols); Ithaca, JI (*Buys*); Oliverea, JI, *Shoe* (Ols); White Plains, Je (Ols); Mosholu (Bno); **LI:** Maspeth, Flushing, Bay Shore, Huntington, Je-Aug (Ols).

- 2139 **E. anthracinus** VanD. Adirondacks, *How* (EPV); Cranberry L. (Osb); Axton, *MacG* (EPV); Hamburg, J1 (EPV).
- 2142 **E. arctostaphyli** Ball. Cranberry L. (Osb); Indian L., near Sabael, Aug, *Brb* (Ols).
- E. humidus** Osb. Cranberry L. (Osb).
- 2144 **E. striatulus** Fall. Hamburg, J1 (EPV); Chautauqua Co, Je-J1 (*DeL*); LI: Bay Shore, J1, Hempstead, Aug (Ols); Cold Sp. Harb. (Osb).
- 2145 **E. vaccinii** VanD. Cranberry L. (Osb); Mt. Whiteface, Cobble Hill, Hamburg, Salamanca, J1-Aug (EPV); Karner, Poughkeepsie (Osb-NYS); White Plains, Je (Ols); LI: Bay Shore, Yaphank, Hempstead, May-J1 (Ols).
- 2146 **E. instabilis** VanD. Cranberry L. (Osb); Hamburg, Colden, Je-J1 (EPV); McLean, J1-Aug (Buys).
- 2147 **E. angustatus** Osb. "NY" (VanD. Cat.); Cranberry L. (Osb).
- 2148 **E. elongatus** Osb. Cranberry L. (Osb); Chautauqua Co, J1 (*DeL*).
- 2156 **E. curtisii** Fitch. Cranberry L. (Osb); L. Placid, Buffalo, Hamburg, Lancaster, Lawtons, Gowanda, Je-Aug (EPV); Sodus Pt., Aug (Buys); Batavia, Aug, *Kngt* (Laws); Portage, Aug, *Kngt* (Laws); Wyoming, *Kngt* (Ols); Otto, J1 (Uhl-CU); Chautauqua Co, Je (*DeL*); Ithaca, Je, Ringwood, J1 (Buys); Nassau, Eagle Bridge, Salem (Osb); Karner; Clinton Hgts.; Phoenicia; Kingston; Warwick; W. Nyack, May, White Plains, Je (Ols); NYC; SI, Aug, *Ols* (EPV); LI: Maspeth, Huntington, Je (Ols); Cold Sp. Harb., Jamaica (Osb).
- **E. comma** VanD. Cranberry L. (Osb).

## EUTETTIX Van Duzee

- 2160 **E. luridus** VanD. "NY" (Ball); Karner (Osb-NYS); LI: Bergen L., May, *Zab* (AM).
- 2161 **E. marmoratus** VanD. LI: Melville, Sep, *Schott* (Osb); Yaphank, Central Pk., Ap-May, *Ols* (Osb).
- 2162 **E. southwicki** VanD. Hamburg, Boston, Salamanca, J1-Aug (EPV); Gowanda, Karner, Aug (Osb); Ft. Montgomery, Sep, *Schott*, W. Nyack, Je (Ols); NYC (Ball); LI: Bay Shore, J1 (Ols); Wyandanch, Huntington, Aug-Sep, *Schott* (Ols).
- 2163 **E. subaeneus** VanD. LI (Ball-Osb).
- 2164 **E. querci** G. & B. LI: Hempstead, J1 (Ols).
- 2167 **E. pictus** VanD. LI: Bay Shore, Hempstead, J1, *Ols* (EPV).
- 2168 **E. slossoni** VanD. LI: Bay Shore, J1, *Ols* (EPV).
- 2170 **E. johnsoni** VanD. Gowanda, Aug (EPV); White Plains, W. Nyack, Je, Sep (Ols); Mosholu, Mount Castle, Bryn Mawr Pk., Je, Sep (AM); SI, Aug (EPV, Osb); LI: Jamaica (Osb); Flatbush, Je-J1 (Buys); Flushing, North Beach, Forest Hills, Winfield, Maspeth, Hempstead, Bay Shore, J1-Oct (Ols).
- 2179 **E. seminudus** Say. Batavia, Je-Aug, *Kngt* (Ols); Hamburg, Buffalo, Lancaster, Je-Aug (EPV); Wyoming, Je, *Kngt* (Ols); Chautauqua Co, J1 (*DeL*); Ithaca, Je (Buys); Albany (Osb); E. Albany, Oct (Lint-NYS); Nassau, Eagle Bridge, Salem, NYC (Osb); W. Nyack, Je-J1 (Ols); SI (Osb); LI: Cold Sp. Harb. (Osb); Huntington, *Schott* (Ols).

- 2180 **E. cinctus** O. & B. **LI:** Glen Head, Sep, *Bade* (Ols); Wyandanch, Aug, *Ols* (Osb); Huntington, Sep, *Schott* (Ols).
- 2181 **E. chenopodii** Osb. (*strobi* Fitch). Buffalo (EPV); eastern NY, *EPV* (Ball); **LI:** Maspeth, Aug, *Ols* (EPV); Yaphank, May, *Ols* (Osb). This synonymy is that of DeLong.
- 2182 **E. scitulus** Ball. Cranberry L., *Hily* (Osb&DeL).

## PHLEPSIUS Fieber

- 2195 **P. majestus** O. & B. Mosholu (Osb); **LI:** Glen Head, Sep, *Bade* (Ols).
- 2197 **P. excultus** Uhl. "NY" (Uhl).
- 2201 **P. decorus** O. & B. Cranberry L. (Osb); Hamburg, Niagara Falls, Elma, Gowanda, Salamanca, Jl-Aug (*EPV*); Chautauqua Co, Aug (*DeL*).
- 2212 **P. uhleri** VanD. **LI:** Yaphank, May, *Ols* (Osb).
- P. strobi** Fitch (*Eutettix strobi* Fitch, 2181). "NY" on pine (Fitch); NYC, Jl, *Southwick* (EPV).
- 2215 **P. maculosus** Osb. (*maculatus* Osb.). Bronxville, Jl, *Wood* (Ols). The synonymy is Olsen's.
- 2223 **P. incisus** VanD. Indian L., near Sabael, Aug, *Brb* (Ols); Ausable R., Saranac L., Lancaster, Buffalo, Boston, Gowanda, Salamanca, Jl-Sep (*EPV*); Batavia, Aug, *Kngt* (Osb); Chautauqua Co, Aug (*DeL*); Ithaca, Aug (*Buys*).
- **P. maculellus** Osb. Cranberry L. (Osb).
- 2226 **P. fuscipennis** VanD. Montgomery, Sep, *Schott* (Ols); Albany, *Bno* (Osb-NYS); NYC, Jl, *Southwick* (EPV); **LI:** Maspeth, Oct, *Ols* (Osb).
- 2227 **P. turpiculus** Ball. Buffalo, Sep (*EPV*); **LI:** Bay Shore, Jl, *Ols* (EPV).
- 2228 **P. irroratus** Say. Cranberry L. (Osb); Batavia, Je-Jl, Portage, Aug, *Kngt* (Ols); Niagara Falls, Elma, Hamburg, Lawtons, Buffalo, Lancaster, Gowanda, Salamanca, Je-Sep (*EPV*); Ithaca, Je (*Buys*); Nassau, Salem (Osb); Nyack, *Zab* (AM); W. Nyack, Je, Oct, White Plains, Je (Ols); NYC, *Bno* (Osb); **SI** (Osb); **LI:** Cold Sp. Harb., Jamaica (Osb); Flatbush, Oct, *Zab* (AM); Wyandanch, Oct, *Schott* (Ols); Newtown Hgts., North Beach, Winfield, Maspeth, Forest Hills, Yaphank, Bay Shore, Port Washington, Je-Oct (Ols).
- 2230 **P. collitus** Ball. Gowanda, Salamanca, Jl-Aug (*EPV*); Chautauqua Co, Jl-Aug (*DeL*); White Plains, Je, W. Nyack, Oct (Ols); Bronxville, Je, *Wood* (Ols); Mosholu, Sep (AM); **SI**, Sep (AM); **LI:** Flushing, Bay Shore, Forest Hills, Sea Cliff, Jl-Aug (Ols).
- 2234 **P. lobatus** Osb. **LI:** Sea Cliff, Aug, Maspeth, Sep (Ols).
- 2235½ **P. tennesa** DeL. **LI:** Flushing, Aug (Ols); Pennequid Barrens, Coram, Jl, *Eng* (Ols).
- 2236 **P. apertus** VanD. Ausable R., Aug (*EPV*); Cranberry L. (Osb); Keene Val., *Felt* (Osb); L. George, Aug, *Zab* (AM).
- 2237 **P. fulvidorsum** Fitch. Cranberry L. (Osb); L. Placid, Elma, Lancaster, Boston, Gowanda, Salamanca, Jl-Sep (*EPV*); Chautauqua Co, Je-Aug (*DeL*); L. Waccabuc, Jl, *Zab* (AM); L. George, Aug, *Zab* (Ols-AM); NYC, Je, *Southwick* (EPV); **LI:** Wyandanch, Aug (Ols).
- 2241 **P. slossoni** Ball. **LI:** Bay Shore, Jl (Ols).
- 2244 **P. nebulosus** VanD. **LI:** Cold Sp. Harb. (Osb).

- 2246 **P. solidaginis** Wlk. (*humidus* VanD.). Cranberry L. (Osb); Batavia, Aug, *Kngt* (Ols); Buffalo, Aug (*EPV*-CU); W. Seneca (*EPV*); Chautauqua Co, Je (*DeL*); Ithaca, Aug (*Buys*); Phoenicia; W. Nyack, Jl (Ols); NYC, *Southwick* (*EPV*-CU); **LI**: Maspeth, Bay Shore, Jl-Aug, *Ols* (*EPV*).
- 2247 **P. ramosus** Baker. Gowanda, Aug (*EPV*).

## THAMNOTETTIX Zetterstedt

- 2251 **T. kennicotti** Uhl. Cranberry L. (Osb); Cobble Hill, Oct (*EPV*); Batavia, Jl, *Kngt* (Osb, Ols); Buffalo, Hamburg, Colden, Elma, Gowanda, Salamanca, Je-Sep (*EPV*); Ithaca, Aug, *Baker* (CU); **LI**: Sea Cliff (*EPV*-CU); Winfield, Bay Shore, Aug-Sep, *Ols* (*EPV*); Huntington, Sep, *Schott* (Ols); Hempstead, Jl (*Ols*).
- 2252 **T. subcupraeus** Prov. Olivera, Sep, *Dickerson* (AM).
- 2253 **T. brittoni** Osb. Boston, Aug (*EPV*); Cattaraugus Co, Jl, *Kngt* (Ols); Olivera, 2300 ft., Sep, *Dickerson* (AM); **LI**: Yaphank, Bay Shore, Aug, *Ols* (Ball).
- 2263 **T. morsei** Osb. McLean, Aug, *Sib* (*Buys*); Ft. Montgomery, Bear Mt., Sep, *Schott* (Ols).
- 2265 **T. clitellarius** Say. Rochester, Jl, *Wendt* (Ols); L. Placid, Buffalo, Hamburg, Niagara Falls, Colden, Salamanca, Gowanda, May-Aug (*EPV*); Batavia, May-Jl, *Kngt* (Ols); Chautauqua Co, Je-Oct (*DeL*); Ithaca, Je-Jl, Ringwood, Je (*Buys*); Albany, Highland, Clinton Hgts., Phoenicia, Eagle Bridge, Salem, Mosholu (Osb); White Plains, Sep (*Ols*); Yorktown Hgts., Sep (Ols); **LI**: Forest Pk. (Osb); Flatbush, Jl (*Buys*); Cold Sp. Harb. (Osb); Maspeth, Flushing, North Beach, Bay Shore, Forest Hills, Je-Sep (Ols).
- **T. cockerelli** Ball. Cranberry L. (Osb).
- 2266 **T. eburatus** VanD. Johnstown, Aug, *Alex* (*EPV*); Indian L., near Sabael, Aug, *Brb* (Ols); Cranberry L. (Osb); Boston, Salamanca, Jl (*EPV*); Bear Mt., Sep, *Schott* (Ols).
- 2269 **T. collaris** Ball. Hamburg (Osb); Chautauqua Co, Aug (*DeL*); Ithaca, *Hine* (Osb); NYC, *Park* (Ball).
- 2275 **T. belli** Uhl. Cranberry L. (Osb); "NY" (Osb-NYS).
- 2275a **T. belli** var. *gilletti* VanD. Speculator, Colden, Je-Jl (*EPV*).
- **T. belli** var. *brunneus* Osb. Cranberry L. (Osb).
- 2278 **T. aurantiacus** Prov. Speculator, Aug (*EPV*).
- **T. waldanus** Ball. Cranberry L. (Osb).
- 2292 **T. chlamydatus** Prov. L. Placid, Aug, *EPV* (Osb); Johnstown, Je, *Alex* (*EPV*).
- 2305 **T. melanogaster** Prov. Cranberry L. (Osb); Batavia, Jl, *Kngt* (Ols); Hamburg, Buffalo, Lancaster, Elma, Gowanda, Je-Sep (*EPV*); Chautauqua Co, Aug (*DeL*); Ithaca, Aug (*Buys*); McLean, Jl (*Buys*); White Plains, Je, *Ols* (Ball); **LI**: Sea Cliff (*EPV*-CU).
- 2307 **T. decipiens** Prov. Cranberry L. (Osb); L. Placid, Ausable R., Aug-Sep (*EPV*); Mountain View, Sep, *Not* (*Dickerson*-AM); McLean, Sep, *Sib* (*Buys*).
- 2312 **T. fitchii** VanD. Buffalo, Lancaster, Colden, Lawtons, Albion, Gowanda, Hamburg, Aug-Sep (*EPV*); Chautauqua Co, Sep (*DeL*); Phoenicia

(Osb); White Plains, Je, *Ols* (DeL); **SI**; **LI**: Cold Sp. Harb. (Osb); Maspeth, Sea Cliff, Winfield, Je-Sep, *Ols* (Ball); Flushing, Bay Shore, Aug-Oct (*Ols*).

- **T. pallidulus** Osb. Cranberry L. (Osb).
- **T. smithi** VanD. Cranberry L. (Osb).
- **T. ciliatus** Osb. Cranberry L. (Osb).
- 2314 **T. nigrifrons** Forbes (*perpunctata* VanD.). Batavia, Jl, *Kngt* (Ball); Hamburg, Buffalo, Lancaster, Aug-Sep (*EPV*); Chautauqua Co, Jl-Sep (*DeL*); NYC; **LI**: Sea Cliff (*EPV-CU*); Newtown Hgts., *Ols* (*EPV*); Maspeth, Jl, Oct, *Ols* (DeL); Bay Shore, Jl, *Ols* (Ball).
- 2318 **T. inornatus** VanD. Ausable R., Lancaster, Buffalo, Jl-Sep (*EPV*); Indian L., near Sabael, Aug, *Brb* (*Ols*); Batavia, Sep, *Kngt* (*Ols*); Chautauqua Co, Aug (*DeL*); Ithaca, McLean, Jl (*Buys*); Salem (*Osb*); **LI**: Sea Cliff, Aug, *Ols* (Ball).
- 2319 **T. placidus** Osb. Ausable R., L. Placid, Aug (*EPV*); Cranberry L. (Osb).
- 2320 **T. cypraceus** Osb. Cranberry L. (Osb); Fulton Co, Sep, *Alex* (*EPV*); Hamburg, Buffalo, Jl-Oct (*EPV*).

#### CHLOROTETTIX Van Duzee

- 2324 **C. unicolor** Fitch. Lewiston; Cranberry L. (Osb); Keene Val., Saranac Inn (Osb); Rochester, Aug, *Baker* (*CU*); Sodus Pt., Aug (*Buys*); L. Placid, Hamburg, Buffalo, Niagara Falls, Lancaster, Gowanda, Je-Sep (*EPV*); Batavia, Jl-Aug, *Kngt* (Osb, *Ols*); Chautauqua Co, Aug (*DeL*); Ithaca, Je-Aug, McLean, Jl (*Buys*); White Plains, Jl (*Ols*); Phoenicia, Eagle Bridge, Salem, Mosholu; **SI**; **LI**: Cold Sp. Harb., Oyster Bay, Jamaica (Osb); Hempstead, Winfield, Flushing, Jl, *Ols* (*EPV*); Bay Shore (*Ols*); Central Pk., Je, *Shoe* (*Ols*); Kings Pk., Jl, *Bell*, Coram, Jl, *Eng* (*Ols*).
- 2327 **C. tergatus** Fitch. L. Placid, Buffalo, Hamburg, Lancaster, Jl-Aug (*EPV*); Batavia, Jl-Aug, Portage, Aug, *Kngt* (*Ols*); Chautauqua Co, Jl (DeL); Ithaca, Jl (*Buys*); W. Nyack, Aug-Sep (*Ols*); Karner, Eagle Bridge, Salem, Nassau, Mosholu, NYC (Osb); **SI**; **LI**: Cold Sp. Harb., Jamaica (Osb); Hempstead, Jl (*Ols*); Maspeth, Aug (*Ols*).
- 2329 **C. viridius** VanD. L. Placid (*EPV-CU*); W. Nyack, Sep (*Ols*); NYC, Jl, *Southwick* (*EPV*); **SI** (*EPV*); **LI**: Cold Sp. Harb., Jamaica (Osb); Bay Shore, Canarsie, Jl, Sep, *Ols* (*EPV*); Floral Pk., Sep, *Bell* (*Ols*); Glen Head, Sep, *Bade* (*Ols*); Sea Cliff, Aug (*Ols*).
- 2331 **C. galbanatus** VanD. Chautauqua Co, Aug (*DeL*); Nassau, Salem (Osb); W. Nyack, Sep, White Plains, Je (*Ols*); **SI**: Ft. Wadsworth, Jl, *Bs* (*Ols*); **LI**: Jamaica, Sea Cliff (*EPV*); Maspeth, *Ols* (*EPV*); Bay Shore, Je, Sep (*Ols*); Pennequid Barrens, Coram, Jl, *Eng* (*Ols*); Hempstead, Wyandanch, Aug-Sep (*Ols*).
- 2332 **C. balli** Osb. Boston, Hamburg, Gowanda, Salamanca, Jl-Sep (*EPV*); Chautauqua Co, Aug (*DeL*); **LI**: Jamaica, Aug (Osb).
- 2336 **C. lusorius** O. & B. Cranberry L. (Osb); Ausable R., L. Placid Club, Niagara Falls, Hamburg (*EPV*); Chautauqua Co, Aug (*DeL*); Phoenicia (*EPV*); Poughkeepsie (Osb).



## JASSUS Fabricius

- 2340 **J. clitorius** Say. Albion, Niagara Falls, Buffalo, Salamanca, Gowanda, Jl-Sep (EPV); Batavia, Aug, *Kngt* (Ols); Hamburg (Osb); Chautauqua Co, Aug (DeL); Ithaca, Aug (Buys); L. George, Aug (AM); Karner, Salem (Osb); Phoenicia (EPV); Mosholu (Bno); **SI; LI:** Cold Sp. Harb., Jamaica (Osb); Hempstead, North Beach, Flushing, Bay Shore, Maspeth, Wyandanch (Ols); Flatbush, Aug-Sep (AM).

## PARACOELIDEA Baker

- 2353 **P. tuberculata** Baker. **LI:** Oyster Bay (Osb).

## CICADULA Zetterstedt

- 2356 **C. punctifrons** Fall. Lancaster, Jl, EPV (Baker); Gowanda, Aug (EPV); Ithaca, Jl (Baker-CU); Callicoon, Jl, *Ds* (Ols).
- 2356a **C. punctifrons** var. **repleta** Fieb. (*americana* VanD.). Batavia, Aug, *Kngt* (Ball); Keene Val. (Osb-NYS); Lancaster, Buffalo, Hamburg, Colden, Gowanda, Jl-Aug (EPV); Ithaca, Jl (Buys).
- 2358 **C. variata** Fall. Cranberry L. (Osb); L. Placid, Lancaster, Lime L., Hamburg, Elma, Phoenicia, Je-Sep (EPV); Batavia, Jl, *Kngt* (Osb); Chautauqua Co, Jl (DeL); Ithaca, Je (Buys); Nassau (Osb); Olivera, Sep (AM); W. Nyack, Je, *Ols* (DeL); **LI:** Maspeth, *Ols* (Ball); Flushing, Sep, *Winters*, Bay Shore, Jl-Sep, *Ols* (Ball); Newtown Hgts., Je, *Ols* (EPV).
- 2359 **C. lepida** VanD. Sodus Pt., Aug, *Buys*; Ithaca, Aug (Baker-CU); NYC, Je, *Southwick* (EPV).
- 2362 **C. sexnotata** Fall. Cranberry L. (Osb); Saranac Inn, Jl, *Ndm* (Osb); Axton, L. Placid, Hamburg, Buffalo, Je-Aug (EPV); Big Moose, Keene Val., Karner, Nassau, Eagle Bridge, Salem (Osb); Sodus Pt., Aug (Buys); Batavia, Jl-Aug, *Kngt* (Ball); McLean Bogs, May, Ithaca, Je (Buys); Phoenicia, Kingston (EPV); Olivera, Sep, *Dickerson* (AM); **LI:** Cold Sp. Harb., Jamaica (Osb); Maspeth, Bay Shore, May-Jl, *Ols* (EPV); North Beach, Flushing, Je, Oct, *Ols* (Ball); Forest Hills, Yaphank, Je, *Ols* (DeL); Orient, Sep, *Schott* (Ols).
- 2364 **C. divisa** Uhl. Saranac Inn, Jl, *Ndm* (Osb).
- 2368 **C. slossoni** VanD. Cranberry L. (Osb); L. Placid, Clarence, Hamburg, Lancaster, Gowanda, Jl-Sep (EPV); Chautauqua Co, Aug (DeL); High Bridge, NYC, Je, *Southwick* (EPV-CU); **LI:** Forest Hills, Flushing, Je, *Ols* (DeL).
- 2369 **C. patoria** Ball. "NY" (VanD. Cat.).
- **C. pallida** Osb. Cranberry L. (Osb).

## BALCLUTHA Kirkaldy

- 2370 **B. punctata** Thunb. Axton, Je, *M&H* (EPV-CU); Cranberry L. (Osb); L. Placid, Buffalo, Hamburg, Colden, Gowanda, Stamford, May-Aug (EPV); Sodus Pt., May, Aug (Buys); Labrador L., May (Buys); Batavia, Ap, Je, *Kngt* (DeL); Portage, May-Aug, *Kngt* (Laws); Ithaca, May-Aug, McLean, May (Buys); Albany, Poughkeepsie (Osb);

Phoenicia, Kingston (EPV); Oliverea, Aug, *Dickerson* (AM); Slide Mt., Sep, *Dickerson* (AM); Ft. Montgomery, Sep, *Schott* (Ols); White Plains, W. Nyack, Ap-May, *Ols* (DeL); **LI**: Yaphank, May, *Ols* (DeL); Jamaica, Aug (*Osb*).

2371 **B. osborni** VanD. Summit of Mt. Whiteface, Aug, *EPV* (Osb); W. Nyack, Je, *Ols* (DeL); Colden, Lancaster, Hamburg, Gowanda, Jl-Aug (*EPV*); **LI**: Sea Cliff (EPV-CU).

2372 **B. confusa** G. & B. Hamburg, Aug (*EPV*); Ithaca, Jl-Aug (Baker-CU).

2373 **B. impicta** VanD. Cranberry L. (Osb); Hamburg, Lancaster, Gowanda, Stamford, Jl-Aug (*EPV*); Portage, Aug, *Kngt* (DeL); Ithaca, Jl (Baker-CU); **LI**: Maspeth, May, North Beach, Je, *Ols* (EPV).

2373a **B. impicta** var. *flava* Baker. Ithaca, Jl-Aug (Baker-CU).

#### EUGNATHODUS Baker

2377 **E. abdominalis** VanD. **LI**: Sea Cliff (EPV-CU).

#### SUBFAMILY TYPHLOCYBINAE<sup>22</sup>

##### ALEBRA Fieber

2380 **A. albostriella** Fall. Cranberry L. (Osb); Batavia, Aug, *Kngt* (DeL); Hamburg, Kingston, Jl-Aug (*EPV*); Ithaca, Ap-May (*Buys*); **LI**: Maspeth, Bay Shore, Yaphank, May-Jl, *Ols* (DeL).

2380a **A. albostriella** var. *fulveola* H.-S. (*aurea* Walsh). Lancaster, Hamburg, Elma, Gowanda, Salamanca, Je-Aug (*EPV*); Phoenicia, Kingston; **LI**: Jamaica (EPV).

2382 **A. fumida** Gill. Cranberry L., *Hily* (Osb&DeL); Buffalo, Hamburg, Boston, Elma, Je-Aug (*EPV*); Ithaca, Jl (Gill-CU).

##### DIKRANEURA Hardy

2384 **D. cruentata** Gill. Ithaca, Ap-May, Aug (*Buys*, Gill-CU); Cranberry L. (Osb).

2386 **D. mali** Prov. (*communis* Gill.). Summit of Mt. Whiteface, Lancaster, Hamburg, Buffalo, Conesus L., May-Aug (*EPV*); Batavia, Aug, *Kngt* (DeL); Ithaca, Jl (Gill-CU); White Plains, May-Je, *Ols* (DeL); Phoenicia (*EPV*); **LI**: Maspeth, Flushing, Yaphank, May-Oct, *Ols* (DeL); Sea Cliff (EPV-CU).

2393 **D. fieberi** Lw. Cranberry L. (Osb); Sodus Pt., Aug (*Buys*); Batavia, Aug, *Kngt* (DeL); Hamburg, Lancaster, Lawtons, Buffalo, Je-Sep (*EPV*); Ithaca (Gill, *Buys*); McLean (*Buys*); White Plains, Je, *Ols* (DeL); **LI**: Forest Hills, Je, *Ols* (DeL); Maspeth, *Ols* (EPV, DeL); Flatbush, Nov, *Schott* (Ols).

##### EMPOASCA Walsh

2394 **E. trifasciata** Gill. Lancaster, Gowanda, Aug (*EPV*).

2395 **E. smaragdula** Fall. Cranberry L. (Osb); Sodus Pt., Aug, *Buys* (McAttee); Buffalo, Hamburg, Je-Sep (*EPV*); McLean, Jl, *Buys* (McAttee); Salem (Osb); Oliverea, Aug, *Diven* (AM); White Plains, Je, *Ols* (DeL).

<sup>22</sup> Considered as a tribe—Typhlocybini—in Van Duzee's catalog, but by several recent workers considered as a subfamily and therefore so used here.

- 2399 **E. maligna** Walsh (*unicolor* Gill.). Hamburg, Salamanca, Jl-Aug (*EPV*); **LI**: Sea Cliff (*EPV-CU*).
- 2398 **E. obtusa** Walsh. Batavia, Je-Sep, *Kngt*, *Morr* (Osb); Hamburg, Jl-Sep (*EPV*); Ithaca, *Morr* (Osb); Phoenicia, Kingston (*EPV*); White Plains, Je, *Ols* (DeL); **LI**: Maspeth, *Ols* (*EPV*); Yaphank, North Beach, Hempstead, Je-Sep, *Ols* (DeL).
- **E. aureoviridis** Uhl. Cranberry L. (Osb).
- 2400 **E. unica** Prov. (*splendida* Gill.). Gowanda, Aug (*EPV*); Ithaca, Je, *Buys* (McAtee).
- 2401 **E. atrolabes** Gill. Cranberry L. (Osb); L. Placid, Gowanda, Salamanca, Jl-Aug (*EPV*).
- 2406 **E. coccinea** Fitch. Cranberry L. (Osb); "NY" (Fitch, Wlk-Brit. Mus.).
- 2418 **E. alboneura** Gill. "NY" (*EPV*); **LI**: Jamaica, *EPV* (NYS).
- 2421 **E. fabae** Harr. (*mali* Le B., *viridescens* Walsh, *consobrina* Walsh, *malefica* Walsh). APPLE LEAF HOPPER. Cranberry L. (Osb); Batavia, Jl-Aug, *Kngt* (DeL); Fulton, Buffalo, Phoenicia, Hamburg, Lancaster, Geneva, Je-Aug (*EPV*); Waterville, Aug, *Hawl* (*EPV*); Ithaca; **SI** (*EPV*); **LI**: Sea Cliff (*EPV-CU*); Bay Shore, Forest Hills, Jl-Oct, *Ols* (DeL).
- 2422 **E. flavescens** Fab. Near Ausable R., Hamburg, Je-Oct (*EPV*); Sodus Pt., Aug, *Buys* (McAtee); Batavia, Oct, *Kngt* (DeL); Ithaca, Je-Jl, *Buys* (McAtee); McLean, Jl, *Buys* (McAtee); **LI**: Sea Cliff (*EPV-CU*); Maspeth, Yaphank, Aug-Sep, *Ols* (DeL).
- 2424 **E. birdii** Godg. Cranberry L. (Osb); Batavia, Aug, *Kngt* (DeL); Hamburg, May (*EPV*); Ithaca, Aug (Gill-CU); Albany (Osb-NYS); **LI**: Lynbrook, Ap, *Nic*, Queens Village, Mar, *Schott* (DeL).

## TYPHLOCYBA Germar

(Eupteryx Curtis)

- 2426 **T. collina** Flor. Fredonia, Nov, *Cy* (*EPV*).
- **T. melissae** Curt. Batavia, Aug, *Kngt* (DeL); **LI**: Maspeth, Newtown Hgts., May-Je (*Ols*).
- 2427 **T. vanduzeei** Gill. Cranberry L. (Osb); Isham House, Adirondacks, Aug (*EPV*); Hamburg, Jl-Aug, *Alex* (*EPV*, Gill).
- 2429a **T. flavoscuta** var. *nigra* Osb. Cranberry L. (Osb); **LI**: Jamaica, Oct 20, 1904 (Osb). The synonymy is McAtee's.
- 2429 **T. flavoscuta** Gill. Cranberry L. (Osb); L. Placid, Hamburg, Colden, Gowanda, Je-Aug (*EPV*); Sodus Pt., Aug, McLean, Jl, Ithaca, Je (*Buys*); Phoenicia (Osb); **LI**: Sea Cliff (*EPV-CU*); Wyandanch, Oct, *Schott* (DeL); Hempstead, Sep, *Ols* (DeL).

## EMPOA Fitch

(Typhlocyba Germar)

- 2430 **E. querci** Fitch. Cranberry L. (Osb); Mt. Whiteface, Stamford, Lancaster, Gowanda, Phoenicia, Kingston, Jl-Aug (*EPV*); Ithaca, Oct (Osb-Morr); Slide Mt., Sep, *Diven*; Bronxville, *Wood* (Ols); **LI**: Sea Cliff (*EPV-CU*).

- 2430a *E. querci* var. *gillettei* VanD. (*bifasciata* G. & B.). Essex Co, Jl, *Not* (DeL); Cranberry L. (Os); L. Placid, Hamburg, Lancaster, Gowanda, Phoenicia, Kingston, Aug (*EPV*); Batavia, Je-Aug, *Kngt* (DeL); **LI**: Maspeth, Je, *Ols* (DeL).
- 2433 *E. ulmi* L. Albany, Oct (Gill).
- 2435 *E. tenerrima* H.-S. Cranberry L. (Os); Ausable R., Aug (*EPV*).
- 2436 *E. lethierryi* Edws. Cranberry L. (Os); Hamburg, Jl-Aug (*EPV*).
- 2437 *E. rosae* L. ROSE LEAF HOPPER. Cranberry L. (Os); L. Placid, Buffalo, Hamburg, Je-Oct (*EPV*); Batavia, Jl-Sep, *Kngt* (DeL, Os); Ithaca, Oct, *Morr* (Os); Ghent, Oct (Felt); Albany, *EPV* (NYS); **LI**: Sea Cliff (*EPV-CU*); Maspeth, Oct, *Ols* (DeL).

## HYMETTA McAtee

- 2440 *H. trifasciata* Say. Lancaster, Hamburg, Gowanda, May-Sep (*EPV*); Batavia, Aug, *Kngt* (DeL); Ft. Montgomery, Sep, *Schott* (Ols).

## ERYTHRONEURA Fitch

- 2441 *E. tricincta* Fitch. Rochester, Jl, *Wendt* (DeL); Batavia, Aug, *Kngt* (DeL); Lancaster, Jan (div.); Ithaca, Aug (Gill-CU).
- 2443 *E. hartii* Gill. Bronxville, Aug, *Wood* (Ols).
- 2445 *E. comes* Say. GRAPE LEAF HOPPER. Cranberry L. (Os); Batavia, Aug, *Kngt* (Os); Buffalo, Hamburg, Ap-May (*EPV*); Albany, Oct (NYS); **LI**: Sea Cliff (*EPV-CU*); North Beach, Maspeth, Flushing, Mar-Apr, *Ols* (*EPV*); Forest Pk., Yaphank, May, *Ols* (DeL); Lynbrook, Ap 27, *Nic* (DeL).
- 2445a *E. comes* var. *vitifex* Fitch. Ithaca, Ap, Aug, *Buys* (McAtee); Pawling, *ALMarshall* (McAtee).
- 2445b *E. comes* var. *ziczac* Walsh. Lancaster, Lawtons, Gowanda, Stamford, Jl-Oct (*EPV*).
- 2445c *E. comes* var. *vitis* Harr. Batavia, Aug, *Kngt* (DeL); Lancaster, May (*EPV*); Rochester, Jl, *Wendt* (Ols); Ithaca, May, Aug, *Buys* (McAtee, Gill-CU); **LI**: Aqueduct, May, *Ols* (DeL); North Beach, Yaphank, Mar, May, *Ols*.
- *E. comes* var. *corona* McAtee. Hamburg, Aug (*EPV*).
- 2445d *E. comes* var. *basilaris* Say. "NY" (Os, McAtee); Gowanda, Aug (*EPV*); Lancaster, Aug (*EPV*); Ithaca, May, *Buys* (McAtee).
- 2445f *E. comes* var. *rubra* Gill. Batavia, Aug, *Kngt* (DeL); **LI**: Brooklyn, Forest Pk., Mar, Oct, *Ols* (DeL).
- 2445g *E. comes* var. *maculata* Gill. **LI**: Forest Pk., Maspeth, Mar, *Ols* (DeL).
- *E. comes* var. *gemina* McAtee. Ithaca, Aug, *Buys* (McAtee).
- 2445i *E. octo-notata* Walsh. Ithaca, Jl, *MacG* (Gill-CU); **LI**: Sea Cliff (*EPV-CU*).
- 2446 *E. illinoiensis* Gill. Hamburg, *EPV* (Os).
- 2447 *E. obliqua* Say. Cranberry L. (Os); L. Placid, Hamburg, Colden, May-Sep (*EPV*); Buffalo, May-Sep (*EPV*); Ithaca, Ap, *Buys* (McAtee, Gill-CU); **LI**: Sea Cliff (*EPV*).
- 2447a *E. obliqua* var. *dorsalis* Gill. Colden, Stamford, May-Aug (*EPV*); **LI**: Sea Cliff (*EPV-CU*).

- 2447c *E. obliqua* var. *fumida* Gill. Gowanda, Stamford, Jl-Aug (EPV); **LI**: Sea Cliff (EPV-CU).  
 — *E. obliqua* var. *noevus* Gill. Cranberry L. (Osb).  
 2448 *E. vulnerata* Fitch. Lancaster, Aug (EPV); Ithaca, Aug (Gill-CU); Albany, Oct, EPV (NYS); **LI**: Sea Cliff (EPV-CU).  
 2448a *E. vulnerata* var. *nigra* Gill. Lancaster, Aug (EPV).  
 2450 *E. crevecoeuri* Gill. "NY" (McAtee, EPV-CU).

## FAMILY FULGORIDAE

Compiled by Z. P. METCALF

## SUBFAMILY DICTYOPHARINAE

## DICTYOPHARA Germar

- 2462 *D. microrhina* Wlk. **SI**, Aug (EPV, Ds, Zab-AM); **LI**: Aqueduct, Aug (Ds); Maspeth, Sep (Ols); New Lots, Zab (AM).  
 2463 *D. lingula* VanD. **SI**, Aug-Sep (Ds); **LI**: Maspeth, Sep (Ols).

## SCOLOPS Schaum

- 2466 *S. sulcipes* Say. Wells (Yg); Cranberry L. (Osb); White L., Zab (AM); L. Placid, Aug (EPV); Lancaster (EPV); Nassau, Salem, Albany, Karner (NYS); Kingston (EPV); Phoenicia (EPV); New Baltimore (Yg); W. Nyack, Sep; Mosholu, West Farms, Kissena L. (AM); **SI**, Jl (Ols); **LI**: Kissena Pk., Maspeth, Winfield, Port Washington, Jl-Sep (Ols); Aqueduct, Je, *Shoe*; Sea Cliff, Aug, Forest Hills, Sep (Ols).  
 2469 *S. desiccatus* Uhl. **SI** (Ds); also other localities (Ols).  
 2470 *S. perdix* Uhl. **LI**: Bay Shore, Maspeth, Winfield, Aug-Sep (Ols).  
 2477 *S. angustatus* Uhl. Ithaca (CU); Mosholu (Sm); Van Cort. Pk., Aug; **SI** (EPV); **LI**: Cold Sp. Harb., Jamaica (EPV); Winfield, Wyandanch, Rockaway, Maspeth, Jl-Aug (Ols); Orient, Flatbush, Jl, Aug, Zab (AM).

## PHYLLOSCELIS Germar

- 2484 *P. atra* Germ. CRANBERRY TOAD BUG. Carmel, Aug (AM); White Plains (Ols); **LI**: Sea Cliff (CU); Calverton, Riverhead (Sirriner & Fulton).  
 2484a *P. atra* var. *albovenosa* Melich. White Plains (Ols); Cold Sp. Harb., Sep (Ds).  
 2485 *P. pallescens* Germ. **LI** (Sirriner & Fulton).

## SUBFAMILY ACHILINAE

## EPIPTERA Metcalf

- 2498 *E. colorata* VanD. Gowanda (EPV).  
 2499 *E. opaca* Say. Phoenicia (EPV); near L. Erie (Say).  
 2502 *E. slossoni* VanD. Cranberry L. (Osb).  
 2503 *E. septentrionalis* Prov. **LI**: Bay Shore, Sep (Ols); Calverton, Sep (Ds).  
 2504 *E. floridae* Wlk. **LI**: Bay Shore, Aug (Ols); Wyandanch, Jl, *Schott*.  
 2505 *E. variegata* VanD. **LI**: Bay Shore, Sep (Ols).  
 — *E. brittoni* Metc. West Pt., Sep.



## CATONIA Uhler

- 2507 *C. nava* Say. Gowanda, Hamburg, Aug.  
 2508 *C. cinctifrons* Fitch. **LI**: Sea Cliff (EPV); Melville, Wyandanch, Sep, Oct, *Schott*; Forest Hills, Sep (Ols).  
 2510 *C. picta* VanD. **LI**: Huntington, Sep, *Schott*.  
 2511 *C. grisea* VanD. Niagara Falls, Hamburg, Gowanda, Phoenicia (EPV); L. George, Aug-Sep, *Zab* (AM).  
 2512 *C. pumila* VanD. **LI**: Jamaica (EPV).  
 2514 *C. impunctata* Fitch. Buffalo, Colden, Phoenicia (EPV); L. George, Sep; Ramapo, JI (Ds); **LI**: Bergen I., Orient, JI, Aug, *Zab* (AM); Wyandanch, Aug (Ols).  
 2515 *C. dimidiata* VanD. Phoenicia (EPV); Ft. Montgomery, Sep, *Schott*.

## SUBFAMILY CIXIINAE

## OLIARUS Stål

- 2528 *O. quinquelineatus* Say. Buffalo, E. Aurora (EPV); Rock City, Ithaca, JI (Ds); Karner (EPV); **SI**, Je-JI (Ols); **LI**: Pinelawn, May-JI (Ds); Bay Shore, Yaphank, Je-JI (Ols); Ft. Montgomery, JI, Sep, Huntington, *Schott*.  
 2529 *O. placitus* VanD. **LI**: Flatbush, *Zab* (AM).  
 2531 *O. franciscanus* Stål. Niagara Falls, near Buffalo, Boston, Gowanda (EPV); Crugers, JI (AM); White Plains, W. Nyack, Je (Ols); **LI**: Yaphank, Bay Shore, Flushing, JI (Ols).  
 2540 *O. humilis* Say. Buffalo, Hamburg (EPV); Goshen, Carmel, Aug, Sep (AM).  
 2541 *O. cinnamomeus* Prov. "NY" (VanD. Cat.).

## CIXIUS Latreille

- 2545 *C. misellus* VanD. Speculator, Wells (Yg); Cranberry L. (Osb); Buffalo, L. Placid, Salamanca, Gowanda, Hamburg, Chautauqua, Colden, Lewiston (EPV); Elizabethtown, Trenton Falls (NYS).  
 2546 *C. basalis* VanD. L. Placid, Hamburg, Gowanda, Salamanca (EPV); Phoenicia (NYS); L. George, *Zab* (AM); NYC (AM); **LI**: Flatbush, JI, *Zab* (AM).  
 2547 *C. coloeptium* Fitch. Mt. Marcy, JI (Ols); Cranberry L. (Osb); Speculator, Blue Mt.; L. Placid, Lime L., Lewiston, Salamanca (EPV); Olivera, JI (Ols); **SI**, JI (Ols).  
 — *C. apicalis* Metc. Ithaca, Je.

## OECLEUS Stål

- 2554 *O. borealis* VanD. Hamburg (EPV); **LI**: Yaphank, Port Washington, May, JI, Sep (Ols).

## MYNDUS Stål

- 2565 *M. pictifrons* Stål. Buffalo, Hamburg, Aug.  
 2566 *M. sordidipennis* Stål. Near Buffalo, Hamburg, Je, JI, Colden, Je. **LI**: Lott Wood, Flatbush, JI, *Zab* (AM).

## SUBFAMILY ISSINAE

## FITCHIELLA Van Duzee

- 2580 **F. robertsoni** Fitch. "NY" (VanD. Cat.).

## BRUCHOMORPHA Newman

- 2583 **B. oculata** Newm. Ithaca (CU); Cranberry L., Jl, Aug (Os); Speculator, Wells, Yg; Buffalo, Boston, Colden, Hamburg, Gowanda, Salamanca, Phoenicia (EPV); Salem (NYS); W. Nyack, Je (Ols).  
 2585 **B. dorsata** Fitch. "NY."  
 2588 **B. tristis** Stål. Niagara Falls (EPV).

## APHELONEMA Uhler

- 2591 **A. histrionica** Stål. Cranberry L., Aug (Os); Hamburg, L. Placid, Cobble Hill, Lancaster, Buffalo (EPV).

## THIONIA Stål

- 2634 **T. bullata** Say. Niagara Falls, Gowanda, Hamburg (EPV); LI: Maspeth, Jl, Sep, Port Washington, Sep (Ols); Flatbush, Aug, Zab (AM); Aqueduct, Jl (Ds).

## SUBFAMILY ACANALONIINAE Amyot and Serville

## ACANALONIA Spinola

- 2639 **A. bivittata** Say. Ithaca (Ols, CU); Schenectady (Ols); Albany, Karner (Yg); Phoenicia (EPV); Salem (NYS); Poughkeepsie (CU); West Pt., Sep, Robn (Ds); Ft. Montgomery, Jl (Ds); W. Nyack, Sep (Ols); Mosholu; Bryn Mawr Pk. (AM); SI (EPV); LI: Bay Shore, Maspeth, Winfield, Sea Cliff, Wyandanch, Port Washington, Pelham Parkway, Yonkers, Bayville, Jl-Oct (Ols); Promised Land, Wading R., Southold, Amagansett, Pinelawn, Yaphank, Brooklyn, Flushing, Aug-Oct (Ds).

## SUBFAMILY FLATINAE Spinola

## ORMENIS Stål

- 2649 **O. pruinosa** Say. MEALY LANTERN FLY. Rochester, Wendi; Buffalo, Gowanda, Lancaster (EPV); Ithaca (Ols); Albany; Nassau, Troy (NYS); Normanskill, Leon; Poughkeepsie; W. Nyack, Aug (Ols); Bronxville; NYC (Ols); West Farms (AM); Kingston; Bronx, Aug (Ols); LI: Maspeth, Jl, Aug (Ols); Yaphank, Wading R., Ft. Montgomery, Fire Place, Jl-Oct (Ds); Wyandanch, Port Washington, Jl-Aug (Ols).  
 2656 **O. septentrionalis** Spin. Mt. Sinai (Ds); Albany; Poughkeepsie; White Plains, Sep, Dunwoodie, Yonkers, Sep (Ols); West Farms, Aug (AM); MacLean Ave., NYC, Aug (Ols); SI, Jl-Oct (Ds); LI: Sea Cliff (EPV); Jamaica (NYS); Syosset (NYS); Maspeth, Jl, Sep, Flushing, Sep (Wlk); Wading R., Orient, Aug-Oct (Ds); Yaphank.

## SUBFAMILY DERBINAЕ Spinola

## PATARA Westwood

- 2671 *P. vanduzei* Ball. Cranberry L., *Htly* (Osb&DeL). Gowanda (EPV).

## CEDUSA Fowler

- 2672 *C. vulgaris* Fitch. L. Placid, Buffalo, Boston, Hamburg, Salamanca, Ithaca (EPV); Batavia, *Kngt*; Otto; Karner, Albany (NYS); L. George, Aug, *Zab* (AM); Oliverea, JI, *Shoe*; **LI**: Jamaica (EPV); Bay Shore, Yaphank, JI-Sep (Ols).
- 2673 *C. obscura* Ball. Elma, Hamburg, E. Aurora (EPV); W. Nyack, Sep (Ols); **LI**: Bay Shore, Wyandanch, JI-Aug (Ols).
- *C. incisa* Metc. Cranberry L., *Htly* (Osb&DeL).

## CENCHREA Westwood

- 2678 *C. uhleri* Ball. **LI**: Hempstead, Sep (Ols).

## AMALOPOTA Van Duzee

- 2681 *A. uhleri* VanD. Lancaster, Niagara Falls (EPV); Hamburg, Gowanda, Aug (EPV).
- 2682 *A. fitchi* VanD. Colden, Buffalo (EPV).

## ANOTIA Kirby

- 2683 *A. bonnetii* Kby. Buffalo (EPV); Karner (NYS).
- 2684 *A. westwoodi* Fitch. "NY" (Fitch).
- 2685 *A. burnetii* Fitch. Albion (EPV).
- 2687 *A. sayi* Ball. Albion (EPV).

## OTIOCERUS Kirby

- 2689 *O. degeerii* Kby. New Russia, *Bdy*; Buffalo, Lancaster, Stamford, Salamanca, Gowanda (EPV); Phoenicia (EPV); **SI**, Aug (Ds); **LI**: Amagansett, Fire Place, Yaphank, Aug-Sep (Ds).
- 2690 *O. stollii* Kby. Buffalo Plains (EPV).
- 2691 *O. abbotii* Kby. Rye, Sep (Ds).
- 2693 *O. coquebertii* Kby. Old Forge (Yg); Cranberry L., JI, Aug (Osb); Colden, Hamburg, Gowanda, Stamford, Salamanca, Buffalo, Poughkeepsie (EPV); S. Wales, *MCV*; Otto (Uhl); Ithaca (NYS); Phoenicia (NYS).
- 2695 *O. signoretii* Fitch. Lancaster, Hamburg, Conesus L. (EPV).
- 2696 *O. wolfii* Kby. Lancaster, Gowanda, Hamburg, Albion, Aug, Sep (EPV); **SI**, Aug (Ds).
- 2697 *O. amyotii* Fitch. **LI**: Port Washington, Bay Shore, Sep (Ols); Yaphank, JI, *Wood*.
- 2698 *O. kirbyii* Fitch. "NY".
- 2699 *O. schellenbergii* Kby. Gowanda (EPV).

SUBFAMILY DELPHACINAE <sup>22a</sup>

## STENOCRANUS Fieber

- 2701 *S. dorsalis* Fitch. Cranberry L., JI (Osb); Buffalo, L. Placid, Colden, Hamburg, Gowanda, Aug, Sep (EPV); Phoenicia (EPV); Johnstown, Albany, Karner, Newport (NYS); W. Nyack, Sep (Ols); Ft. Montgomery, *Schott*.  
 2703 *S. felti* VanD. Cranberry L., Aug (Osb); Speculator (Felt).  
 2704 *S. palaetus* VanD. "NY" (EPV).  
 — *S. vittatus* Stål. NYC (EPV).

## KELISIA Fieber

- 2706 *K. axialis* VanD. Cranberry L., Aug (Osb); Lancaster, Gowanda, Aug (EPV); LI: Maspeth, Sep (Ols).

## MEGAMELANUS Ball

- 2712 *M. elongatus* Ball. LI: Winfield, JI (Ols).  
 2713 *M. spartini* Osb. SI; LI: Oyster Bay, Cold Sp. Harb. (Osb); Sea Cliff (EPV).

## PROKELISIA Osborn

- 2715 *P. setigera* Osb. LI: Sea Cliff (EPV).  
 2716 *P. marginata* VanD. SI (WMG); LI: Rockaway Beach, Sep (Ols); Cold Sps., Sea Cliff (WMG).

## MEGAMELUS Fieber

- 2717 *M. notulus* Germ. Colden, L. Placid, Hamburg, Lancaster, Concord, Buffalo, May-JI (EPV).  
 2718 *M. piceus* VanD. Potsdam, Je, JI (EPV); Lancaster, Clarence, Grand I. (EPV); Colden, Je, JI (EPV); LI: Yaphank, Je-JI (EPV).  
 — *M. inflatus* Metc. NY.

## PISSONOTUS Van Duzee

- 2723 *P. marginatus* VanD. East Lake (Yg); Lancaster, Hamburg, Phoenicia (EPV); NYC; LI: Sea Cliff (EPV); Ravenswood, Long Island City, *Southwick*.  
 2724 *P. basalis* VanD. Johnstown, *Alex*; Lancaster (EPV); White Plains; W. Nyack, Je (Ols).  
 2726 *P. ater* VanD. Speculator (Yg); Cranberry L., Aug (Ols); Grand I., Buffalo, Hamburg, Elma, Je (EPV).  
 2727 *P. divaricatus* Spnr. Middletown, *Spooner*.  
 2731 *P. delicatus* VanD. Niagara Falls, Aug; LI: Sea Cliff (CU).  
 2732 *P. guttatus* Spnr. Ithaca (CU).  
 2733 *P. dorsalis* VanD. Cranberry L., Aug (Osb); L. Placid, Lancaster, Colden, Boston, Phoenicia, JI (EPV); Ithaca (CU).

<sup>22a</sup> F. Muir, of the Hawaiian Sugar Planters' Experiment Station, has assisted in the preparation of the list in the subfamily Delphacinae.

- 2735 *P. brunneus* VanD. Clarence (CU); Grand I. (EPV); White Plains (Ols); NYC, *Southwick*; **SI** (NYS); **LI**: Sea Cliff (CU); Jamaica (NYS); Maspeth, Je (Ols).  
 2736 *P. piceus* Spnr. Middletown, *Spooner*.  
 2737 *P. aphidioides* VanD. Elm L. (Yg); Salamanca, Colden, Niagara Falls, Hamburg, Boston, Buffalo, Jl-Aug (EPV); Ithaca (CU); Washingtonville (Yg); **LI**: Sea Cliff (CU).

## PHYLLODINUS Van Duzee

- 2739 *P. nervatus* VanD. Newport (Yg); Buffalo, Lancaster, Hamburg, Colden, Je, Jl (EPV); Caroline to Harford (CU); White Plains, Je (Ols).  
 2743 *P. fiabellatus* Ball. Ithaca; White Plains (Ols); **SI**, Aug (EPV); **LI**: Maspeth, Je, Aug (Ols).

## LACCOCERA Van Duzee

- 2745 *L. vittipennis* VanD. Axton, Cobble Hill, L. Placid (EPV); Speculator, Corinth (Yg); Cranberry L., Aug (Osb).

## STOBAERA Stål

- 2750 *S. tricarinata* Say. Lancaster, Hamburg, Lawtons, Jl (EPV); N. Evans, Oct (MCV); **LI**: Flushing, Winfield, Maspeth, Sep-Oct (Ols); Orient, Wyandanch, Sep, Oct, *Schott*.  
 2753 *S. pallida* Osb. **LI**: Oyster Bay (Osb).

## LIBURNIELLA Crawford

- 2758 *L. ornata* Stål. Cranberry L., Jl-Aug (Osb); Hamburg, Jl (WMG); Lawtons, Buffalo, Oct (EPV); White Plains, W. Nyack, Je (Ols); **SI**, Oct (Ds); **LI**: Sea Cliff (EPV); Maspeth, Je (Ols).

## DELPHACODES Fieber

(*Liburnia* Stål)

- 2762 *D. laminalis* VanD. Mt. Whiteface; L. Placid, Phoenicia (EPV).  
 2763 *D. lateralis* VanD. Lancaster, Colden, Niagara Falls, Hamburg, E. Aurora, Buffalo, Gowanda, Je-Oct (EPV).  
 2764 *D. kilmani* VanD. Colden, Elma, Buffalo, Hamburg, May-Je (EPV).  
 2766 *D. pellucida* Fab. Cranberry L., Aug (Osb); Saranac Inn, *Ndm*; Ithaca, Mt. Whiteface, Lancaster, Niagara Falls, Buffalo, Hamburg, May, Aug (EPV).  
 2768 *D. puella* VanD. Mt. Whiteface, Lancaster, L. Placid, Buffalo, Gowanda, Lawtons, Aug-Oct (EPV); **LI**: Sea Cliff (EPV); Wyandanch (Ols).  
 2769 *D. basivitta* VanD. White Plains (Ols).  
 2771 *D. osborni* VanD. Lancaster, Phoenicia, Aug (EPV).  
 2773 *D. campestris* VanD. Cranberry L., Je, Aug (Osb); Lancaster, Portage, Ithaca, Isham House, Kingston, L. Placid, Niagara Falls, Hamburg, Gowanda, Buffalo, Je-Aug (EPV); Karner (NYS); White Plains, May (Ols); **LI**: Maspeth, Yaphank, May (Ols).



- 2774 *D. furcata* Prov. About Buffalo (EPV).  
 2776 *D. detecta* VanD. NYC (EPV); **LI**: Sea Cliff (EPV).  
 2779 *D. foveata* VanD. Portage, Lancaster, Clarence, Hamburg, Je (EPV).  
 2780 *D. lutulenta* VanD. Axton, MacG; Speculator (Yg); Cranberry L., Aug (Os); Buffalo, Ithaca, L. Placid, Portage Falls, Hamburg, Colden, Niagara Falls, Lawtons, Gowanda, Aug (EPV); W. Nyack, White Plains, May-Je (Ols); **LI**: Sea Cliff (EPV); Bay Shore, Maspeth, May-Jl (Ols).  
 2781 *D. obscurella* Bohm. Concord, Colden, Portage Falls (EPV).  
 2785 *D. incerta* VanD. Buffalo (EPV).  
 2790 *D. lineatipes* VanD. Lancaster, Buffalo, Hamburg, Jl, Oct (EPV).  
 2792 *D. nigridorsum* Crawf. White Plains, May (Ols).  
 2793 *D. dolera* Spnr. Ithaca (EPV).

## PENTAGRAMMA Van Duzee

- 2807 *P. vittatifrons* Uhl. Axton, Je, MacG; Oswego (CU).

## FAMILY CHERMIDAE

*(Psyllidae)*

## SUBFAMILY LIVIINAE

## LIVIA Latreille

- 2810 *L. maculipennis* Fitch. Speculator, L. Placid, Aug (EPV); Phoenicia, Aug. EPV (Patch); Oneida, Aug (NYS); Hamburg, Lawtons, Aug (EPV); Belden Hill, May, Cy (Yg); Karner, May (Felt); Nassau, Ap (Felt); Stony Pt., Ap (NYS); NYC (Felt); **LI**: Orient, Jl (NYS).  
 2812 *L. vernalis* Fitch. Speculator, Aug, Yg (EPV); Newport, Jl, Yg; L. Placid, Aug, EPV (NYS); Hamburg, Gowanda, Je-Sep (EPV); Stamford, Aug (EPV); Karner, Ap (NYS); Nassau, Ap (NYS); New Baltimore, Jl, Yg.

## APHALARA Foerster

- 2815 *A. calthae* L. Hamburg, Aug (EPV); Hudson Falls, Jl, on Polygonum (Patch-NYS).  
 2818 *A. angustipennis* Crawf. Speculator, Jl, Yg, Karner, Je (Felt).  
 2822 *A. veaziei* Patch. Speculator, Aug, Yg; L. Placid, Aug, EPV (NYS); Cranberry L., Je-Jl (Os); Colden, Je (EPV); Freeville, Jl, Caroline, Je (Patch); Karner, Je (NYS); Phoenicia, Aug, EPV (NYS); **SI**, Aug, EPV (NYS).  
 2826 *A. fascipennis* Patch. Mud Cr., Tompkins Co, Je (Patch).

## SUBFAMILY PAUROPSSYLLINAE

## HETEROPSYLLA Crawford

- *H. quassiae* Crawf. **LI**, Ap, on *Quassia* sp. (Crawford).

## CALOPHYA Loew

- 2844 *C. nigripennis* Rly. Karner, Je, on white birch (Patch); N. Chatham, Je (Felt).

## SUBFAMILY TRIOZINAE

## TRIOZA Foerster

- 2857 *T. diospyri* (Ashm.). Buffalo, May 25, 1900 (EPV).  
 2860 *T. quadripunctata* Crawf. Canastota, Mar 12, hibernating on grass stems, *Faure* (Crawford).  
 2867 *T. tripunctata* Fitch. Axton, Je (M&H); Penn Yan, Sep, Cy (Felt); Karner, Ap (Patch); **LI**: Sea Cliff (CU); Jamaica, Oct, *Sirrine* (Crawford).  
 2869 *T. maura* Foerst. Cranberry L., *Htly* (Osb).  
 2869½ *T. forcipula* Patch. Ithaca, May (Patch).  
 2870 *T. nigrilla* Crawf. Cranberry L., Aug (Osb).

## SUBFAMILY PSYLLIINAE

## PACHYPSYLLA Riley

- 2886 *P. venusta* O. S. Peekskill (Bt); vic. NYC (Bt).  
 2887 *P. celtidis-mamma* Rly. Ithaca, Sep (CU); Athens, Aug (Felt); vic. NYC (Bt).  
 2889 *P. celtidis-vesiculum* Rly. Ithaca (Crawford); Stony Pt., Ap (NYS); vic. NYC (Bt).  
 2890 *P. celtidis-gemma* Rly. Albion, May (CU); Rochester, Ap, *John Dunbar* (Felt); Ithaca, Cy (EPV); Kingston, Mar (CU); White Plains, May, *Jl* (Felt); vic. NYC (Bt).  
 — *P. coagulata* Uhl. MS. Ithaca, Oct, *Dudley* (Uhl-CU).

## PSYLLOPSIS Loew

- 2913 *P. fraxinicola* Foerst. Rochester, Je, on ash (NYS); Richfield Sps., Aug, on walnut (Crawford).

## PSYLLIA Kirkaldy

- 2922 *P. pyricola* Foerst. PEAR-TREE PSYLLA. Bluff Pt.; W. Brighton, May; Lincoln, Ap; Lewiston, Oct; Mt. Morris; S. Byron; Ithaca, Je, Aug; Glenmont; Kinderhook; Menands; Clinton Hgts., Mar; Ghent; Medway; Athens, Je; Catskills; Ulster Co, Aug; Milton, Je; New Baltimore, May; **SI**: Annadale.  
 2924 *P. quadrilineata* Fitch. "NY" (Fitch).  
 2930 *P. striata* Patch. Elizabethtown, Aug (Patch); Cranberry Cr., *Jl*, abundant on yellow birch (Osb); L. Placid, Aug, *EPV* (Patch); Northville, Je (NYS); Mud Cr., McLean, Ithaca, Je-Aug (Patch); Karner, Aug (Patch).  
 2931 *P. carpinicola* Crawf. Barber Pt., Cranberry L., *Jl*, on yellow birch, white pine, and fire cherry (Osb); Karner, Je, on white birch (Felt).  
 2932 *P. cephalica* Crawf. Elizabethtown, Aug, on ironwood, *Yg*; L. Placid, Aug (NYS); Mud Cr., and several other localities, Tompkins Co (Patch); Karner, Je (NYS).

- 2933 *P. annulata* Fitch. Karner, Je, on white birch (NYS).  
 2936 *P. floccosa* Patch. Cranberry L., Barber Pt., *Childwold & Ranger* (Osb).  
 2938 *P. trimaculata* Crawf. L. Placid, Aug, *CSSheldon* (Crawford); Cranberry Cr., abundant on *Prunus pennsylvanica*; Elma, Gowanda, Salamanca (*EPV*).  
 2940½ *P. buxi* L. NYC, abundant on box hedge (Bks).  
 2942 *P. galeaformis* Patch. Speculator, Aug, *Yg*; Blue Mt., Jl (NYS); L. Placid, Aug, *EPV* (NYS); North Cr., Aug (NYS); Freeville, Jl (Patch); Karner, Mar (Patch); Stamford, Aug (*EPV*).  
 — *P. quadrisignata* Wlk. "NY" (Wlk).

FAMILY APHIIDAE<sup>23</sup>

## SUBFAMILY APHIINAE

## Tribe LACHNINI

## ANOECIA Koch

- A. querci* (Fitch). Ithaca, very common on leaves of red oak (Morr).

## EULACHNUS Del Guercio

- E. agilis* (Kalt.). Albany, NYC, Jl, on pine (Gill-NYS).

## DILACHNUS Baker

- D. abietis* (Fitch). L. Placid, Sep, *CHPeck* (NYS).  
*D. laricifex* (Fitch). Ithaca, Je, on larch (Morr).  
*D. strobi* (Fitch). Ithaca, on white pine (Morr, with query); LI: Wading R., May, on pine (Ols).

## LONGISTIGMA Wilson

- L. caryae* (Harr.). S. Byron, Je, *JFRose* (NYS).

## LACHNUS Burmeister

- L. curvipes* Patch. Old Forge, on balsam, Aug (Felt).  
*L. viminalis* (Fonsc.) (*dentatus* Le B.). Poughkeepsie, May; Ossining, May (NYS); LI: Flushing, Sep, on willow (NYS).

## Tribe CALLIPTERINI

## PHYLLAPHIS Koch

- P. fagi* (L.). A woolly species which appears to be very common on the leaves of copper beech in various parts of the State; probably widely distributed: Albany, Tivoli, Rochester, Brewster, Tarrytown.

<sup>23</sup> The present list is based upon one prepared by Dr. E. P. Felt several years ago, compiled from literature and from specimens and records in the New York State Museum, which has been further added to by the editor. A. C. Baker and P. W. Mason, of the United States Bureau of Entomology, have kindly rearranged the synonymy in the present list and have gone over the manuscript for possible errors. Dr. Edith M. Patch also has looked over the manuscript and made several changes and suggestions.

## CALAPHIS Walsh

**C. betulaecolens** (Fitch). Buffalo, Je; Rochester, Je (Gill); E. Greenbush, Aug; Karner, *Leon* (Patch), on gray birch; Newark, Je; Cranberry L., on yellow birch (Osborne); reported also from Newport, Geneva, Rochester, and Poughkeepsie, Je (Gill).

?**C. betulae** (Buckton). Albany, J1; Geneva, Je (Gill).

**C. castaneae** (Fitch). Albany, Ithaca, very common (Morr).

## THERIOAPHIS Walker

**T. bellus** (Walsh). Rochester, Je, on *Quercus rubra* (Gill); Ithaca (Morr); White Plains, Nov (Ols); **LI**: Flushing, Oct, on *Quercus rubra* (Ols).

**T. tiliae** (L.). Geneva, Je (Gill); Ithaca, common (Morr).

**T. ononidis** (Kalt.). Albany, Geneva, Je-J1 (Gill).

## EUCERAPHIS Walker

**E. betulae** (Koch). Geneva, Je (Gill); Ithaca, May (Patch); White Plains, Nov, on *Betula lutea* (Ols).

**E. lineata** Baker. Karner, on gray birch, *Leon* (Patch).

## MONELLIA Oestlund

**M. caryella** (Fitch). Ithaca, very common on hickory (Morr).

**M. costalis** (Fitch). Watervliet, Aug, abundant on pignut, *Leon* (Patch).

## MYZOCALLIS Passerini

**M. alnifoliae** (Fitch). "NY" (Fitch).

**M. asclepiadis** (Mon.). Geneva, J1 (Gill); Sheridan (Hayhurst).

**M. discolor** (Mon.). Ithaca, Je, very common and injurious on white oak (Morr); **LI**: Maspeth, Oct, *Quercus prinus*.

**M. fumipennellus** (Fitch) (*caryfoliae* Davis). "NY" (Fitch).

**M. ulmifolii** (Mon.). Common and frequently destructive on the American elm: Albany, Broome, Chautauqua, Fulton, Monroe, Montgomery, Oneida, Ontario, St. Lawrence, and Warren Counties, probably generally distributed throughout the State.

**M. punctatellus** (Fitch). "NY" (Fitch).

**M. walshi** (Mon.). Geneva, Je, on *Quercus rubra* (Gill).

## DREPANAPHIS Del Guercio

**D. acerifoliae** (Thos.). A common, though rarely abundant, species on soft-maple leaves, probably widely distributed throughout the State since it has been recorded or reported from Albany, Dutchess, Herkimer, Rensselaer, Saratoga, Tompkins, and Westchester Counties. **LI**: Maspeth, Je, Oct, on *Acer saccharinum* (Ols).

## DREPANOSIPHUM Koch

**D. platanoides** (Schrank). Ithaca, Je (Morr); **LI**: Orient, J1, *Lath* (Felt). Sycamore, maple.

**CHAITOPHORUS** Koch

- C. populifoliae** Oest. Ithaca, on Carolina poplar (Morr).  
**C. viminalis** Mon. Geneva, J1 (Gill).

**PERIPHYLLUS** Van der Hoeven

- P. lyropictus** (Kess.). It is presumably this species which has been extensively recorded in economic literature in recent years as *Chaitophorus aceris* L. Ogdensburg (JJDavis); Albany, Greene, and Ontario Counties. Probably this is the species which has been very destructive to Norway maples in many widely separated localities in the State.  
**P. negundinis** (Thos.). BOX-ELDER APHID. Newport; Ithaca (Morr); Albany, J1 (Gill); Nassau. Box elder.

**NEOTHOMASIA** Baker

- N. populicola** (Thos.). Ithaca (Morr); Karner, J1, abundant on the common aspen;  
**LI:** Maspeth, Nov, on *Populus* sp. (Ols).

**CLAVIGERUS** Szépligeti

- C. smithiae** (Mon.). **LI:** Wading R., May, on *Salix fragilis* (Ols); Winfield, Oct, on willow (Ols).  
**C. populifoliae** (Fitch). "NY" (Fitch).  
**C. salicis** (L.). Buffalo, Sep; Karner, Je (NYS).  
**C. saliceti** (Kalt.). Ithaca, very common on willow (Morr).

Tribe **APHIINI****ANURAPHIS** Del Guercio

- A. cardui** (L.) (*pruni* Koch). Sheridan, *Hayhurst*; Geneva, Je (Gill); Ithaca, Oct (Morr); Schoharie, Je; Rensselaer.  
**A. crataegifoliae** (Fitch). Sheridan, *Hayhurst*.  
**A. maidi-radicis** (Fbs.). Albany, on aster (NYS).  
**A. persicae-niger** (Smith). Portland (Sling).  
**A. roseus** Baker (*sorbi* Am. auct.). ROSY APPLE APHIS. Very injurious in apple orchards, and probably generally distributed throughout the State.  
**A. tulipae** Boyer (*gladioli* Felt). Berlin, on *gladioli* (Felt).  
**A. viburnicola** (Gill.). **LI:** Maspeth, Je, on *Viburnum* sp. (Ols).

**APHIS** Linnaeus

- A. asclepiadis** Fitch. Sheridan, *Hayhurst*; Geneva (Gill).  
**A. carduella** Walsh. Ithaca, Oct, on *Cirsium lanceolatum* (Morr).  
**A. cerasifoliae** Fitch. Sheridan, *Hayhurst*; Geneva, Je (Gill); Ithaca (Morr); Albany, Je. Probably widely distributed on chokecherry.  
**A. cephalanthi** Thos. **LI:** Wading R., May, on *Cephalanthus occidentalis* (Ols).  
**A. coreopsidis** (Thos.). Sheridan, *Hayhurst*; **LI:** Maspeth, Aug, on *Bidens frondosa* (Ols).



- A. forbesi** Weed. **LI:** Maspeth, Je, on *Fragaria virginiana* (Ols).
- A. gossypii** Glover. MELON APHIS. Albany, Aug, *SHPeck*; Fredonia, *Hayhurst*; Menands, Aug (Felt); Ithaca; NYC, JI (Gill); **LI:** Maspeth, Oct, on *Hibiscus syriacus* (Ols). Common and widely distributed in the State.
- A. helianthi** Mon. Ithaca, on sunflower (Morr); Blissville, Oct, Nov, on *Helianthus rigidus*. Probably widely distributed.
- A. maidis** Fitch. **LI:** Orient Pt., Nov, on corn, *Lath* (NYS).
- A. lutescens** Mon. **LI:** Winfield, Je, on milkweed (Ols).
- A. pomi** DeG. APPLE APHID. **LI:** Wading R. (Ols). A widely distributed, very common, and occasionally rather destructive, orchard pest.
- A. pseudoavenae** Patch. Ithaca, Mar, in greenhouse on wheat, *Griswold* (Patch).
- A. rumicis** L. BEAN APHID. Albany; Port Kent, May; Geneva, Je (Gill); Elmira, Sep, on buckwheat (Cy); Ithaca (Morr); **LI:** Maspeth, Je, on *Arctium lappa*, Oct, on *Chenopodium* sp. (Ols).
- A. sanborni** Patch. **LI:** Maspeth, May, on *Sambucus canadensis*.
- A. spiraeicola** Patch. Albany; Geneva, Je-JI (Gill).
- A. salicicola** Thos. Albany; Geneva, on willow (Gill).
- A. illinoisensis** Shimer. GRAPE-VINE APHID. Troy, JI (*Leon*); Middletown, Aug (Chap). **LI:** Maspeth, Je, JI (Ols). Sometimes injurious to grape.

## BREVICORYNE Das

- B. brassicae** (L.). CABBAGE APHIS. Widely distributed throughout the State.

## CAVARIELLA Del Guercio

- C. pastinaceae** (L.) (*Siphocoryne*). Ithaca, very common on wild parsnip (Morr); **LI:** Maspeth, Nov (Ols), on *Lonicera japonica*.
- C. capreae** Fab. **LI:** Maspeth, JI, on cultivated parsnip (Ols).

## HYSTERONEURA Davis

- H. setariae** (Thos.). **LI:** Maspeth, Nov (Ols), on *Digitaria sanguinalis*.

## HYALOPTERUS Koch

- H. atriplicis** (L.). Fredonia, Jamestown, Lilly Dale (*Hayhurst*), on *Chenopodium*.
- H. arundinis** (Fab). MEALY PLUM APHID. Fredonia, on plum (*Pergande*); probably this species in Montezuma Marshes, *HDHouse* (Felt), on *Phragmites*; Ithaca, Je, Cy (Patch, as *pruni* Fab.).
- H. trirhoda** Wlk. Ithaca, JI, on cultivated columbine, *Griswold* (Patch).

## LIOSOMAPHIS Walker

- L. rhois** (Mon.) (*Rhopalosiphum*, *Amphorophora*). Ithaca, Je, on the terminal shoots and leaves of sumac (Morr).

## RHOPALOSIPHUM Koch

- R. rubiphila** (Patch). Ashokan Reservoir, Je, abundant on wild raspberry plants affected with mosaic, *Leon* (Patch).

- R. pseudobrassicae** (Davis). TURNIP APHID. Geneva; Ithaca; **LI**. Probably widely distributed throughout the State, since it is readily confused with the common cabbage aphid, *Brevicoryne brassicae* (L.).
- R. prunifoliae** (Fitch) (*avenae* Fab. and Am. auctt.). APPLE GRAIN APHID. Reported from many localities, and undoubtedly present wherever wild or cultivated apple occurs in the State.
- R. angelicae** (DelG). **LI**: Maspeth, Aug (Ols), very abundant on *Artemisia absinthium*.
- R. rufomaculata** (Wils.). Ithaca, Dec, in greenhouse on *Chrysanthemum indicum* hybrid, *Griswold* (Patch).

#### AMPHOROPHORA Buckton

- A. solani** (Thos.). Port Jervis, Je (Felt); sometimes prevalent and injurious on potatoes (Felt). Dr. Patch writes: "*A. solani* Thomas of most American authors is only *Myzus persicae*. The type slide is not a *Solanum* species at all—probably accidental. The description of colony applies to another *Solanum* aphid."

#### FRANCOA Del Guercio

- F. rosarum** (Kalt.) (*Myzus rosarum* auct.). Ithaca, Oct, in greenhouse on rose, *Griswold* (Patch).

#### ILLINOIA Wilson

- I. liriodendri** (Mon.). Sometimes common on tulip leaves, at least in the vicinity of NYC (Felt).
- I. pisi** (Kalt.) (*Macrosiphum*). PEA APHID. Probably widely distributed throughout the State. Definitely recorded from: Albany; Rensselaer; **LI**: Floral Pk.; Wading R. Pea and red clover, often very injurious.
- I. solanifolii** (Ashm.) (*Macrosiphum*). POTATO APHID. Widely distributed throughout the State.
- I. lilii** (Mon.). **LI**: Orient, Aug, *Lath* (Patch), on *Lilium canadense*.

#### MACROSIPHONIELLA Del Guercio

- M. sanborni** (Gill.). Ithaca, Feb, on chrysanthemum (Patch).

#### TRITOGENAPHIS Oestlund

- T. chrysanthemi** Oest. Sheridan, *Hayhurst* (Felt).
- T. rudbeckiae** (Fitch). Probably widely distributed throughout the State. Bemis Hgts.; Albany, Je; Nassau; **LI**: Maspeth, Je-Nov, on *Silene noctiflora*, cultivated aster, goldenrod, Lactuca, *Xanthium canadense*, *Rudbeckia laciniata*, cultivated lettuce (Ols); Rockaway Beach, Jl, on goldenrod; Wading R., May, on *Antennaria neodioica*.
- T. taraxici** Kalt. Ithaca, Je, *Joh* (Patch); **LI**: Maspeth, Je, on dandelion (Ols).
- T. solidaginis** Fab. Probably widely distributed throughout the State. Albany, Jl, on aster (Gill).

#### MACROSIPHUM Passerini

- M. cornelli** Patch. Ithaca, throughout the year, in greenhouse on *Pelargonium quercifolium* hybrid, *P. odoratissimum*, *P. domesticum*, *P. graveolens*, *P. peltatum*, and *P. radula*, *Griswold* (Patch).
- M. rosae** (L.). **LI**: Maspeth, on rambler rose (Ols).

- M. granarium** Kby. (not *avenae*). ENGLISH GRAIN APHID. Doubtless widely distributed throughout the State. Canaseraga; Chatham; Hudson; Kinderhook; Niverville; Stone Ridge; **LI**: Glen Cove.
- M. dirhodum** Wlk. Ithaca, Mar, on greenhouse roses (Morr).
- M. pseudodirhodum** Patch. Ithaca, Ap, May, Nov, in greenhouse on roses, *Griswold* (Patch).

## MYZUS Passerini

- M. cerasi** (Fab.). BLACK CHERRY APHID. Generally distributed throughout the State, definite records extending from Saranac Inn to Wading R., **LI**.
- M. circumflexus** (Buckt.). Ithaca, on liliaceous greenhouse plants in Mar and May (Morr).
- M. persicae** (Sulz.). GREEN PEACH APHID. Widely distributed throughout the State on greenhouse plants and on a variety of outdoor fruits and vegetables.
- M. pseudosolani** Theo. Ithaca, Jl, on potato, Nov, in greenhouse on *Verbena hybrida*, *Griswold* (Patch).

## CRYPTOMYZUS Oestlund

- C. ribis** (L.). CURRANT APHID. Widely distributed throughout the State and destructive to currants; recorded from St. Lawrence Co southward to Westchester Co and across the State.
- C. galeopsidis** (Pass.). **LI**: Maspeth, Je-Aug, on *Polygonum* (Ols).

## CAPITOPHORUS Van der Goot

- C. fragaefolii** Ckll. **LI**: Maspeth, Je (Ols), on *Fragaria virginiana*.
- C. hippophoes** Koch (*Rhopalosiphum*). **LI**: Maspeth, Nov, on *Polygonum pennsylvanicum*.

## PHORODON Passerini

- P. humuli** (Schränk.). HOP APHID. Probably widely distributed over the State, since it has been reported on hop in Cattaraugus, Dutchess, Madison, Montgomery, Otsego, and Schoharie Counties.

## IDIOPTERUS Davis

- I. nephrolepidis** Davis. Ithaca, Feb, Mar, Dec, in greenhouse on *Adiantum*, *Nephrolepis exaltata* var. *bostoniensis*, *Cyrtomium*, and *Pteris*, *Griswold* (Patch).

## SUBFAMILY MINDARINAE

## MINDARUS Koch

- M. abietinus** (Koch). Star L., St. Lawrence Co, Je; L. Clear, Paul Smiths, Franklin Co, Elizabethtown, Je; Watertown, Jl; Mt. Kisco, Je, on balsam and Scotch pine (NYS); Warwick, Jl.

## SUBFAMILY ERIOSOMATINAE

## Tribe ERIOSOMATINI

## COLOPHA Monell

- C. ulmicola** (Fitch). Known to occur in Onondaga, Genesee, Erie, Ontario, Washington, Albany, Rensselaer, and Westchester Counties, and probably moderately abundant and generally distributed throughout the State (Felt).

## ERIOSOMA Leach

- E. lanigerum** (Hausm.). WOOLLY APPLE APHID, or ELM ROSETTE APHID. Widely distributed throughout the State from St. Lawrence and Essex Counties southward to Maspeth, **LI**. Apple, Crataegus, and elm, often injurious.
- E. rileyi** (Thos.). Probably generally distributed throughout the State, but recorded only from Watertown and Northville (Felt). Elm.
- E. americanum** Rly. ELM LEAF-CURL APHID. Probably generally distributed throughout the State, available records including from St. Lawrence and Essex Counties southward to Westchester Co and Maspeth, **LI** (Felt). Probably blamable for the early summer curling of American elm leaves (Felt).
- E. ulmi** (L.). The distribution of this species within the State is probably coincident with that of *E. americanum* Rly., but *E. ulmi* is probably less common (Baker & Mason); common on certain English elms (Patch).

## GOBAISHIA Matsumura

- G. ulmifuscus** (Walsh). Reported from Warren, Ontario, Fulton, Greene, and Westchester Counties, but is presumably widely distributed in the State though rarely abundant (Felt). Produces a good-sized, somewhat irregular, gall on leaves of slippery elm (Felt).

## TETRANEURA Hartig

- T. graminis** Mon. Albany, Sep (Felt), on heads of rice cut-grass, *Leersia (Homalocenchrus) oryzoides*; **LI**: Maspeth, on elm, Winfield, Je (Ols).
- T. ulmisacci** Patch. ELM SACK GALL. Kenwood, May, *HDHouse* (Felt), gall on *Ulmus montana*; **LI**: Roslyn, Maspeth, Je (Ols).

## Tribe PEMPHIGINI

## MORDWILKOJA Del Guercio

- M. vagabundus** Walsh. Reported from Monroe, Washington, Saratoga, and Rensselaer Counties, and is probably rather generally and commonly present in sections of the State where poplars grow (Felt). Produces a very irregular, frequently massed, deformation of poplar leaves (Felt).

## PEMPHIGUS Hartig

- P. popularis** Fitch. Saranac Inn, JI, gall on poplar.
- P. populicaulis** Fitch. Ithaca, Albany, Je (Morr); **LI**: Mineola, JI (Morr).
- P. populiglobuli** Fitch. New Rochelle, Je, *TJWade*, gall on Lombardy poplar.
- P. populimonilis** Rly. Alder Cr., Aug, gall on balm of Gilead.
- P. populitransversus** Rly. Rochester, Je (Gill); Cambridge, JI; Albany, Je. Galls on cottonwood.
- P. lactucae** Fitch (*Tychea brevicornis* Hart, *Rhizobius lactucae*). A common lettuce root-louse, and probably rather generally distributed (Felt); Fredonia (Pergande).

## Tribe MELAPHINI

**MELAPHIS** Walsh

- M. rhois** Fitch (*Pemphigus*). Little Falls, Sep (Felt); Clinton (Lint); Canandaigua, Sep (Felt); Schenectady, Sep (Lint). Produces a red-tinted pouch gall on sumac leaves. Has been observed in the lower Hudson Valley, and is probably generally distributed though comparatively rare (Felt).

## Tribe PROCIPHILINI

**NEOPROCIPHILUS** Patch

- N. aceris** (Mon.) (*Pemphigus*). Union, Aug, rather injurious on maple, Cy (Patch).  
**N. attenuatus** O. & S. Karner, Oct, Cy (Patch), on *Smilax herbacea*.

**PROCIPHILUS** Koch

- P. imbricator** (Fitch). BEECH BLIGHT. Probably widely distributed and somewhat common to abundant. Newport, Oct; Ithaca (Morr); Richfield Sps., Sep (Felt); Barneveld, Aug; Indian Ladder, Albany Co; Scarsdale, Aug.  
**P. corrugatus** Sirrine. Ithaca, May (Patch), on *Amelanchier*.  
**P. tessellata** (Fitch) (*Pemphigus tessellata* and *P. acerifolii* Rly.). ALDER BLIGHT. Somewhat generally distributed, but especially abundant in the Adirondacks (Felt); Essex, Monroe, Tompkins, Orange, and Suffolk Counties.

## Tribe FORDINI

**FORDA** Heyden

- F. occidentalis** Hart. LI: Maspeth, Je, on *Polygonum* roots (Ols).

**GEOICA** Hart

- G. radicola** Essig (*Triphidaphis*). Warsaw, Aug, on bean roots, Cy (Patch).

## SUBFAMILY HORMAPHIINAE

**HORMAPHIS** Osten Sacken

- H. hamamelidis** Fitch. A common and probably widely distributed species, producing a characteristic conical gall on the leaves of witch-hazel (Felt). Newport; Oneonta; Nassau; LI: Wading R., May (Ols).  
**H. papyraceae** Oest. Cranberry L., galls on willow birch (Osb). This may be a synonym (Baker & Mason).

**HAMAMELISTES** Shimer

- H. spinosus** Shim. Probably widely distributed, though not usually abundant excepting possibly on birch, its alternate food plant. Albany, Jl (Gill); Hudson (Felt); Canandaigua, Aug; Tarrytown, Je. Produces a peculiar spiny bud-gall on witch-hazel.



## CERATAPHIS Lichtenstein

- C. lantaniae** (Bdv). Ithaca, Dec-Mar, in greenhouse on *Sobralia macrantha*, *Griswold* (Patch).

## FAMILY PHYLLOXERIDAE

## SUBFAMILY ADELGINAE

## ADELGES Linnaeus

- A. abietis** L. SPRUCE-GALL APHID. Moderately abundant to injurious from the Adirondacks to Westchester Co and presumably **LI**, probably occurring in most places where Norway spruce is growing.
- A. cooleyi** Gill. Watertown, **JI** (NYS); White Plains, Aug, on Colorado blue spruce; **LI**: Westbury, **JI** (Felt).
- A. floccus** Patch. Star L., St. Lawrence Co, Aug; St. Huberts, Essex Co, Dec (Patch).
- A. piceae** Ratz. Rochester, May, on Nordmann's fir, probably a recent introduction (Felt).
- A. pinicorticis** Fitch. PINE-BARK APHID. A moderately common species recorded definitely only from Albany, Chenango, Fulton, Saratoga, Dutchess, Ulster, Putnam, Rockland, Westchester, and Suffolk Counties, but widely distributed and occasionally destructive even to large pine trees.
- A. pinifoliae** Fitch (*abieticolens* Thos.). PINE-LEAF APHID. Forms a cone-like gall with the needles modified to thin scales on black spruce, the adults maturing in mid-June and the migrants ovipositing on white pine (Patch). St. Huberts, **JI** (Felt); Utica, **JI** (NYS); Woodstock (Felt); Berlin, Jan.
- A. strobilobius** Kalt. (*laricifoliae* Fitch). This species has been referred to the European genus *Gnaphalodes*. The woolly aphid is sometimes very abundant on larch. Reported only from Ontario, Tompkins, Oneida, Dutchess, and Rockland Counties, but presumably somewhat generally distributed and occasionally rather injurious.

## SUBFAMILY PHYLLOXERINAE

## PHYLLOXERA Boyer

- P. caryaecaulis** Fitch. HICKORY-GALL APHID. Widely distributed throughout the State, probably occurring wherever hickory grows and often injurious to it.
- P. caryae-fallax** Walsh. Rochester, **Je** (Gill).
- P. caryaefoliae** Fitch. Salem (Fitch); Ithaca (Morr), on *Hicoria glabra*.
- P. caryaeglobuli** Walsh. **LI**: Cold Sp. Harb., **Je**, *Luts* (NYS).
- P. caryae-venae** Fitch. Rochester, **Je** (Gill-NYS).
- P. depressa** Shim. Howe Cave, Schoharie Co, **Je** (NYS).
- P. foveola** Perg. Canandaigua, **Je** (NYS).
- P. intermedia** Perg. Rochester, Geneva, **Je** (Gill).
- P. vitifoliae** Fitch (*vastatrix* Rly.). GRAPE PHYLLOXERA. Moderately common and widely distributed. Recorded from Chautauqua, Onondaga, Ontario, Chenango, Rensselaer, and Ulster Counties. Probably occurs in most sections of the State where grapes grow.

FAMILY ALEYRODIDAE <sup>24</sup>

ALEUROCHITON Tullgren

**A. forbesii** Ashm. Ithaca, Nov (CU), on silver maple.

ALEYRODES Latreille

**A. asarumis** Shim. (*actaeae* Britton). Taughannock Falls, J1 (CU), on *Asarum canadense*; Fort Plain (Felt); probably widely distributed.

TRIALEURODES Cockerell

**T. coryli** Britton. Nassau, J1 (Felt), on hazel.

**T. morrilli** Britton. Tarrytown, Aug (Britton), on *Impatiens fulva*.

**T. packardi** Morrill. Sparkill (Sling); **SI**: Richmond (Sling).

**T. vaporariorum** Westw. GREENHOUSE WHITEFLY. Generally distributed in greenhouses throughout the State, infesting a variety of plants.

TETRALEURODES Cockerell

**T. mori** Quaint. Mt. Kisco, J1 (Felt), abundant on *Kalmia latifolia*; New Rochelle, Sep, on Norway maple (Felt).

FAMILY COCCIDAE <sup>25</sup>

Compiled by E. P. FELT and HAROLD MORRISON

SUBFAMILY MONOPHLEBINAE

ICERYA Signoret

**I. purchasi** Mask. COTTONY CUSHION SCALE, or FLUTED SCALE. Rochester, Ithaca (USBE); Albany (NYS); New Rochelle (USBE); **LI**: Lynbrook, *LCGriffith* (NYS). On Acacia and grapefruit. A greenhouse species in this latitude, and well known in the citrus-growing sections of the country. It has been recorded from a large variety of plants and has an extended distribution in the warmer sections of the world.

SUBFAMILY MARGARODINAE

MATSUCCUS Cockerell

**M. matsumurae** (Kuw.). This species has caused considerable damage to the pines on the De Forest Estate on **LI** (Herbert, Proc. Ent. Soc. Wash., vol. 23, p. 19).

<sup>24</sup> The list in this family was originally prepared by Dr. E. P. Felt, and the manuscript has been looked over by Dr. W. E. Britton.

<sup>25</sup> To the list of the Coccidae compiled by Dr. E. P. Felt several years ago, has been added, through Harold Morrison, a summary of the numerous New York species, host, and distribution records contained in the coccid note files of the Bureau of Entomology of the United States Department of Agriculture. About fifty new species and many additional locality records have been obtained from this source. The majority of these are based on determinations by Mr. Morrison. No special attempt has been made to separate the statements made by each, nor is either of these authorities to be held responsible for errors in the list. All dates are omitted, since many specimens are collected long after their death.

## SUBFAMILY ORTHEZIINAE

## ORTHEZIA Bosc d'Antic

- O. insignis** Dougl. Ithaca (Comst); NYC (Pettit & King). On Coleus. This cosmopolitan species occurs in nearly all greenhouses in the State on a very large variety of plants, mostly herbaceous.
- O. solidaginis** Sanders. Ithaca. On Solidago, red clover, mint, and *Prunella vulgaris*.

## SUBFAMILY DACTYLOPIINAE

## ASTEROLECANIUM Targioni-Tozzetti

- A. bambusae** Bdv. NYC (USBE). On Bambusa in greenhouse.
- A. pustulans** (Ckll.). Chatham (NYS). A subtropical species occurring on a variety of plants.
- A. variolosum** (Ratz.). Rochester, Geneva, Cortland, Newburgh, Yonkers (NYS); Tarrytown (USBE); NYC (NYS); **LI**: Flushing (NYS); Westbury, Brooklyn (USBE). This species is limited to oak, and is an introduction from Europe.

## CEROCOCCUS Comstock

- C. parrotti** (Hanter). **LI**: Brooklyn (USBE). On horse-chestnut.

## KERMES Boitard

- K. galliformis** Rly. Ithaca (CU); Karner, Middletown (NYS); **LI**: Brooklyn (NYS). On black oak. This name has been indifferently applied to species of Kermes, and the records here given may therefore include more than one species.
- K. kingii** Ckll. Middletown (NYS). On red oak.
- K. pettiti** Ehrh. Ithaca, *Pettit* (Ehrh); Middletown, on oak, *Thro* (EEBogue).
- K. pubescens** Bogue. Scarsdale (USBE). On oak.
- K. trinotatus** Bogue. Albany (NYS). Apparently widely distributed in the United States. On *Quercus nigra*.

## GOSSYPARIA Signoret

- G. spuria** (Mod.) (*ulmi* Geoff.). EUROPEAN ELM SCALE. Many localities show this species to be widely distributed throughout the State from **LI** and NYC along the Hudson R., northward to Round L., and westward to Newfane. Its occurrence at Binghamton and Ogdensburg also indicates a wide distribution, which may be restricted only by the lack of its food plant.

## ERIOCOCCUS Targioni-Tozzetti

- E. azaleae** Comst. Canton (NYS); Geneva (Comst-CU); Ithaca (Comst-CU); **LI**: Brooklyn (NYS). On wild azalea, *Azalea mendula*, Rhododendron, huckleberry, *Crataegus coccinea*.
- E. borealis** var. Ckll. & Robn. "NY" (Ckll-USBE). On Gaylussacia.
- E. coccineus** Ckll. NYC (USBE). On various greenhouse Cactaceae.

## GYMNOCOCCUS Douglas

**G. agavium** (Dougl.). NYC (USBE). On *Agave* spp.

## DACTYLOPIUS Costa

**D. indicus** (Green). NYC (USBE). On *Opuntia* sp. in greenhouse.

## PHENACOCCUS Cockerell

**P. acericola** (King). FALSE MAPLE SCALE. Numerous records covering a series of years indicate the common occurrence of this insect in the Hudson Val. northward to Troy. Sometimes very abundant on hard maple, and erroneously referred in earlier years in this country to *Pseudococcus aceris* Geoff. Also reported from Johnstown, Oneonta, and Batavia, indicating a wide distribution and suggesting that the area of greatest injury is in the southern part of the Hudson Val. The U. S. Bur. Ent. has many records throughout the State. On maple, hornbeam, lime, and horse-chestnut.

**P. dearnessi** King. Albany (USBE). On *Crataegus*.

## TRIONYMUS Berg

**T. americanus** (Ckll.). Barneveld (USBE).

## PSEUDOCOCCUS Westwood

**P. adonidum** (L.) (frequently referred to as *longispinus*). A common mealy-bug recorded from Ithaca, Albany, and one **LI** locality and Brooklyn, in greenhouse (USBE). Like *citri*, it is probably widely distributed throughout the State on a considerable variety of subtropical and tropical plants.

**P. citri** (Risso). CITRUS MEALY-BUG. This common mealy-bug of the greenhouse is represented from Ithaca, Albany, **LI** (Maspeth, Brooklyn, Flushing), on many plants (USBE). This must be only a very small fraction of localities in the State where this insect occurs, since it is presumably world-wide in distribution and occurs on a very large variety of tropical and semitropical plants.

**P. comstocki** (Kuw.). Palisades, NYC, **SI**, and **LI** (Brooklyn, Mineola, Bayside) (all USBE). On a variety of plants.

**P. gahani** Green. NYC (USBE). On ampelopsis.

**P. ledi** Ckll. Oneida, *HDHouse* (NYS); Sand L., Rensselaer Co (Ckll-CU). On *Ledum groenlandicum*.

**P. maritimus** (Ehrh.). NYC (USBE). On a variety of plants.

**P. nipae** (Mask.). COCONUT MEALY-BUG. New Rochelle, NYC (USBE); **LI**: Locust Val. (USBE). On a variety of plants in the greenhouse.

**P. trifolii** Fbs. CLOVER-ROOT MEALY-BUG. Ithaca (CU). On roots of red clover.

## RIPERSIELLA Tinsley

**R. maritima** (Ckll.). **LI**: Sea Cliff (USBE). On roots of *Spartina*.

## SUBFAMILY COCCINAE

## PULVINARIA Targioni-Tozzetti

- P. acericola** Walsh & Rly. Ithaca, *Pettit & Lochhead* (CU); Albany (USBE); Tarrytown (NYS); **LI**: Maspeth (USBE). Occurs on the leaves of soft maple and on Cornus; is relatively scarce, and probably widely distributed throughout the State.
- P. amygdali** Ckll. COTTONY PEACH SCALE. Williamson, Morton, Lockport, 1925, several infested peach orchards in each. Here first definitely recorded from the State (Morr-CU).
- P. psidii** (Mask.). GREEN SHIELD SCALE. NYC (USBE). On several greenhouse plants.
- P. vitis** (L.). COTTONY MAPLE SCALE. Recorded by numerous observers from many localities in the State. Particularly abundant on **LI** and in the Hudson Val. localities northward to Hudson Falls. Reported in addition from: Adams; Rome; Phoenix; Rochester; Batavia; Buffalo; Salamanca; Ithaca; Auburn; Schenectady. Thrives on soft maple, is frequently reported on grape and under the name *P. innumerabilis* Rathv., and has been recorded from a large number of other food plants.

## PROTOPULVINARIA Cockerell

- P. pyriformis** (Ckll.). PYRIFORM SCALE. NYC (USBE). On *Antidesma* in greenhouse.

## PSEUDOPHILIPPIA Cockerell

- P. quaintancii** Ckll. Port Jervis (NYS). On pitch pine.

## ERIOPELTIS Signoret

- E. festucae** Fonsc. Gravesville (USBE). On grass.
- E. lichtensteinii** Sign. Stark (NYS). On grass.

## CEROPLASTES Gray

- C. grandis** Hemp. Lancaster, *EPV* (CU). On *Azalea* in greenhouses. A Brazilian species previously recorded on *Zanthoxylum*, *Baccharis*, *Ilex*, and *Psidium*.

## EUCALYMNATUS Cockerell

- E. tessellatus** (Sign.). NYC (USBE). On many greenhouse plants.

## COCCUS Linnaeus

- C. acuminatus** (Sign.). NYC (USBE). On *Jasminum* in greenhouse.
- C. elongatus** (Sign.). NYC (USBE). On many greenhouse plants.
- C. hesperidum** L. SOFT SCALE. A common soft scale on greenhouse and house plants. Ogdensburg, Oswego (NYS); Sinclairville (USBE); Rogers Rock, L. George (USBE); Albany, Schenectady (NYS); Richfield Sps. (USBE); Chatham Center (NYS); Lebanon Sps. (USBE); Kingston (NYS); Milton, Monticello (USBE); Warwick (NYS); New Rochelle (USBE); Irvington



(NYS); White Plains (USBE); Kenilworth (USBE); Nyack (USBE); NYC (NYS); **SI**: Rosebank (USBE); **LI**: Roslyn (USBE). This species is cosmopolitan and infests a considerable variety of plants.

**C. pseudohesperidum** (Ckll.). Ithaca, Garrison (USBE). On orchid.

**C. viridis** (Green). NYC (USBE). On citrus in greenhouse.

#### NEOLECANIUM Parrott

**N. cornuparvum** Thro. MAGNOLIA SCALE. E. Aurora, Aurora, Jamestown (USBE); Trumansburg (Thro-CU); Elmira, Mt. Vernon (USBE).

#### TOUMEYELLA Cockerell

**T. corrugatum neglectum** Pett. & McDaniel. W. Danby (USBE). On pine.

**T. liriodendri** (Gmel.). TULIP-TREE LECANIUM. Recorded from many localities in the State, principally on **LI** and in the Hudson Val. Probably distributed coincident with its food plant. On tulip tree and magnolia.

**T. pini** (King). Rochester (NYS); Ithaca (CU); Karner (NYS). On *Pinus divaricata* and *P. rigida*.

#### LECANIUM Burmeister

**L. caryae** Fitch. Otto (CU); Albany (NYS); NYC (Fitch). On black cherry and hickory.

**L. corni** Bouché, and its synonyms, varieties, etc. EUROPEAN FRUIT LECANIUM. Throughout the State on many hosts (USBE).

**L. fletcheri** Ckll.<sup>26</sup> Valcour, Canandaigua (NYS); has been taken also by Pettit, presumably at Ithaca; Yonkers (USBE); **LI** (USBE). On cedar and arbor vitae.

**L. nigrofasciatum** Perg. THE TERRAPIN SCALE. This is a common species occurring on a variety of trees. It has been recorded from widely separated localities in the State, such as Port Jervis, various places in the Hudson Val., Elmira, Unadilla Forks, and Stanley. Particularly abundant on plum, apple, linden, birch, olive, and Vaccinium.

**L. persicae** (Fab.).<sup>27</sup> NYC; **LI**: Brooklyn (USBE). On kudzu vine and Berberis.

**L. quercifex** Fitch.<sup>28</sup> New Russia, on chestnut (NYS); Otto, on elm (CU); Ithaca, on Rubus and elm (CU); Albany, on black currant (NYS); **LI**: Wading R., on oak (Ols).

#### SAISSETIA Deplanches

**S. hemisphaerica** (Targ.). HEMISPHERICAL SCALE. Gouverneur, Rome, Rochester, Buffalo, Jamestown, NYC, **SI** (Prince Bay), **LI** (Locust Val., Flushing, Bayside) (all USBE); **LI**: Maspeth, on fern in greenhouse (Ols).

**S. nigra** (Nietn.). NYC (USBE). On a variety of greenhouse plants.

**S. oleae** (Bern.). BLACK SCALE. Rochester, NYC, **LI** (Brooklyn) (USBE); Maspeth, on lemon (NYS). A subtropical or tropical species occurring on a variety of greenhouse plants and on citrus fruits. It is cosmopolitan in distribution and is recorded from a very large variety of food plants.

<sup>26</sup> Pettit and McDaniel have recently (Michigan Tech. Bul. 48, Mar., 1920, p. 12-14) regarded this as *corni* Bouché.

<sup>27</sup> All the early records of the occurrence of this species in New York State apparently relate to *L. corni* Bouché.—Morr.

<sup>28</sup> There is a question as to the correctness of records on hosts other than oak (Morr).

## PHYSOKERMES Targioni-Tozzetti

- P. piceae** (Schr.). SPRUCE BUD-SCALE. Port Henry (NYS); Ithaca (common), Yonkers (USBE); Blauvelt (NYS); Mt. Vernon, on spruce (NYS). A European species which has been recorded, in addition, on pine.

## SUBFAMILY DIASPINAE

## CHIONASPIS Signoret

- C. americana** Jn. WHITE ELM SCALE. Newark (NYS); Geneva (USBE); Schenectady (NYS); Albany (NYS); Cohoes (USBE); Tarrytown (NYS); NYC (USBE); **LI**: Brooklyn, Westbury (NYS); Maspeth (Ols). Appears to be confined to elm and is probably widely distributed, though the infestation is usually inconspicuous and generally overlooked.
- C. corni** Cool. Rochester (USBE); Geneva (NYS); Youngstown, Ithaca, Albany (USBE); **LI**: Westbury (NYS). Apparently occurs only on Cornus.
- C. euonymi** Comst. EVONYMUS SCALE. Hudson (NYS); Lexington, Fishkill (Felt); Irvington, Mt. Kisco, Tarrytown, Felt, Blauvelt, Nyack (NYS); NYC, Mamaroneck (USBE); **SI**: Tottenville (Ds, Ols); **LI**: Roslyn, Maspeth (Ols); Great Neck (NYS); Flatbush, Brooklyn, Babylon, Westbury, Baldwin, Stony Br. (USBE). On Evonymus, Celastrus, privet, and lilac.
- C. furfura** (Fitch). SCURFY SCALE. Is represented by specimens in the NYS and CU collections, and has been received from many contributors in different localities from the following counties: Madison, Wayne, Monroe, Niagara, Erie, Chautauqua, Ontario, Tompkins, Cayuga, Albany, Rensselaer, Greene, Columbia, Ulster, Dutchess, Orange, Westchester, New York, Richmond, Nassau, Suffolk (Felt); and from many points in the State (USBE). These records indicate a general distribution in the southern and more temperate sections of the State. The insect does not appear to have attracted notice in the Adirondacks. It is recorded from a large variety of food plants, has a wide distribution in Canada and the United States, and has become established in England.
- C. lintneri** Comst. Rochester, on Cornus (NYS); Buffalo (Felt); Ithaca (USBE); Albany, on Alnus (Comst-CU). Occurs, in addition to the above food plants, on willow, Viburnum, benzoin, Amelanchier, Betula, etc.
- C. longiloba** Cool. Ithaca (EEBogue). Recorded from Texas on cottonwood.
- C. pinifoliae** (Fitch). PINE-LEAF SCALE. Apparently widely distributed in the State. Has been reported by a number of observers from the following counties: Clinton, Monroe, Ontario, Tompkins, Schenectady, Saratoga, Albany, Columbia, Dutchess, Orange, Westchester, Kings, Queens, Nassau, Suffolk (Felt); and from many points in the State (USBE). It occurs in particular on the Scotch, Austrian, and white pines, especially in parks, and also on spruce.
- C. pinifoliae heterophyllae** Cool. **LI**: Glen Cove, Southold (USBE). On *Pinus densiflora* and *P. rigida*.
- C. salicis-nigrae** (Walsh). "NY" (USBE). On poplar.
- C. spartinae** Comst. **LI**: Orient Pt., Lath (NYS). On *Spartina alterniflora*, *S. glabra*, and *S. stricta*.
- C. sylvatica** Sanders. NYC (USBE). On Benzoin (?).

## HOWARDIA Berlese and Leonardi

- H. biclavus** (Comst.). Ithaca, NYC (USBE). On a number of greenhouse plants.

## DIASPIS Costa

- D. boisduvalii** Sign. Gouverneur, on orchid (NYS); Rochester (USBE); Albany (NYS); Garrison (USBE); Millbrook, on cycad (Morr); Ithaca (USBE); NYC (USBE); **LI**: Brooklyn (USBE). Probably somewhat widely distributed within the State on greenhouse plants, such as palms, cattleya, etc.
- D. bromeliae** (Kern.). PINEAPPLE SCALE. NYC (USBE). On Bromelia.
- D. carueli** Targ. Rochester, on *Juniperus virginiana* and *Pinus aristata* (John Dunbar); Ithaca (CU); Ossining, on juniper (NYS); NYC (NYS); **LI**: Garden City, on arbor vitae (CU); Lynbrook, on *Juniperus chinensis* (Cy); several localities (USBE). A moderately common and widely distributed species.
- D. echinocacti** (Bouché) var. *cacti* Comst. Rochester (USBE); Ithaca, on cactus (Comst-CU); NYC, on cactus (Joutel-NYS).
- D. zamiae** Morg. Altamont, on *Cycas revoluta* (NYS); Albany, on *Cycas* (USBE); Ithaca; NYC, on *Encephalartos villosus* (USBE).

## AULACASPIS Cockerell

- A. pentagona** (Targ.). WEST INDIAN PEACH SCALE. Chatham, on flowering cherry (NYS); Kingston, on imported Japanese flowering cherry (NYS); New Rochelle, on *Prunus pseudo-cerasus* (NYS); NYC, on cherry (NYS); **LI**: Brooklyn, on peach and cherry (USBE). A southern form, and probably unable to breed in the open except possibly in the southern part of the State.
- A. rosae** (Bouché). ROSE SCALE. Pompey, on rose (NYS); Brighton, on blackberry (NYS); Stanley, on blackberry and rose (NYS); Ithaca; Cobleskill, on rose (NYS); Ballston Spa, on rose (NYS); Albany, on raspberry (NYS); Castleton, on rose (NYS); Troy, on rose (NYS); Hudson, on blackberry (NYS); Kingston, on rose (NYS); Fishkill, on rose (NYS); Cornwall, on blackberry and raspberry (NYS); NYC, on blackberry (NYS); **SI**: New Brighton, on blackberry (NYS); **LI**: Brooklyn, on rose (NYS); Maspeth (Ols); many records from State (USBE).

## HEMICHIONASPIS Cockerell

- H. aspidistrae** (Sign.). FERN SCALE. Geneva (USBE); Jamestown (USBE); Ithaca, on grass in a greenhouse (CU); Albany, on grass in a greenhouse (NYS); New Rochelle and Hyde Park (USBE); **LI**: Brooklyn, Locust Val., Jamaica (USBE). On fern and other greenhouse plants.

## PINNASPIS Cockerell

- P. buxi** (Bouché). Irvington-on-Hudson, NYC (USBE). On *Spathyllum*, *Cordyline*, and *Phoenixophorium*, in greenhouse.

## LEUCASPIS Targioni-Tozzetti

- L. cockerelli** (de Charmoy). NYC (USBE). On *Sabal*, *Trachycarpus*.

## FIORINIA Targioni-Tozzetti

- F. fioriniae** (Targ.). New Rochelle (USBE). On *Kentia belmoreana*.
- F. japonica** Kuw. Albany, on Japanese hemlock (USBE); **LI**: Queens, on Tsuga and Japanese hemlock (USBE).
- F. theae** Green. "NY" (USBE). On *Camellia japonica*.

## EPIDIASPIS Cockerell

**E. piricola** (DelG.). Albany, Garrison, Hunt's Pt., **LI** (USBE). On pear.

## ASPIDIOTUS Bouché

- A. abietis** (Schr.). HEMLOCK SCALE. Ithaca, on *Pinus rigida* and *Abies canadensis* (Comst-CU); Karner, on pine (NYS); NYC, on hemlock (NYS).
- A. aesculi** Jn. Buffalo, on horse-chestnut (USBE).
- A. ancylus** Putn. PUTNAM'S SCALE. Recorded from many localities in the following counties: Oswego, Wayne, Monroe, Orleans, Genesee, Erie, Chautauqua, Ontario, Seneca, Tompkins, Cayuga, Albany, Greene, Columbia, Ulster, Rockland, Queens. Presumably widely and generally distributed throughout the State, except possibly in the Adirondack section. Has been recorded in NY from the following host plants: apple, beech, purple-leaved chestnut, Cornus, Florida currant, elm, hemlock, Ilex, linden, maple, mountain ash, nectarine, olive, Osage orange, pear, white birch, willow.
- A. camelliae** Sign. (*rapax* Comst.). Geneva, on bay tree (CU); NYC, on bay and other plants (USBE); **LI**: Roslyn, Brooklyn (USBE).
- A. comstocki** Jn. "NY" (Fern. Cat.). On maple.
- A. cyanophylli** Sign. NYC (USBE). On palm.
- A. forbesi** Jn. CHERRY SCALE. Syracuse (USBE); E. Aurora, on apple (NYS); Geneva, on pear (NYS); Manchester, on apple (NYS); Crescent Station, on apple (NYS); Albany (NYS); Highland, on peach (NYS); Cornwall, on Japanese plum (NYS); Blauvelt, NYC (USBE). Recorded from a considerable variety of plants, and presumably widely and somewhat generally distributed throughout the State.
- A. hederæ** (Vall.). OLEANDER SCALE. Gloversville (USBE); Lockport (NYS); Buffalo, Alden, Geneva (USBE); Ithaca, on English ivy (NYS); Watervliet, on ivy (NYS); Albany, on Cyperus (NYS); Idlewild (USBE); Mt. Kisco, on Cattleia; Kenilworth (USBE); NYC (USBE); **LI**: Edgemore (USBE); Maspeth (Ols). Subtropical; presumably generally distributed throughout the State in greenhouses, and recorded as occurring on a great variety of plants.
- A. juglans-regiae** Comst. WALNUT SCALE. Brighton, on European mountain ash (NYS); Lockport, Fredonia, on willow (USBE); Ithaca, on willow (USBE); NYC, on Tilia; **LI**: Brooklyn (USBE). Recorded also from the State by others, but without definite record as to locality or food plants.
- A. lataniae** Sign. Lancaster, on palm, *EPV* (CU); Albany (NYS); NYC, on several plants (USBE).
- A. osborni** Newell & Ckll. Mt. Vernon, on white oak (NYS). A very inconspicuous species, evidently with a greater range than is indicated by the foregoing record.
- A. ostreaeformis** Curt. EUROPEAN FRUIT SCALE. Recorded from many localities in the following counties: Oswego, Monroe, Orleans, Niagara, Erie, Chautauqua, Ontario, Columbia, Rockland (Felt); records from many places and hosts in the State (USBE). Probably generally distributed throughout the State. Has been recorded in NY from the following food plants: apple, cherry, currant, elm, pear, plum, poplar, willow.
- A. perniciosus** Comst. THE SAN JOSÉ SCALE. An introduced species which has become established in nearly every county in the State, with the possible exception of Clinton Co, where it has not yet been found. Lives on a great

variety of trees and shrubs. Has been recorded in NY as occurring on the following: apple, birch, cherry, Crataegus, currant, elm, hornbeam, Japanese quince, pear, peach, plum, lilac, Osage orange, rose, spiraea, willow. Will probably become generally distributed in most regions except the Adirondacks.

- A. townsendi** Ckll. **LI**: Westbury (USBE). On tulip tree.  
**A. ulmi** Jn. Buffalo, on catalpa (NYS); Albany (NYS); NYC (USBE).  
**A. uvae** Comst. GRAPE SCALE. Ithaca (Ckll); **LI**: Greenbush (Felt-NYS). On grape.

#### CRYPTOPHYLLASPIS Cockerell

- C. liquidambaris** Kot. NYC (USBE). On sweet gum (*Liquidambar styraciflua*).

#### PSEUDAONIDIA Cockerell

- P. paeoniae** (Ckll.). NYC (USBE). On Camellia.

#### CHRYSOMPHALUS Ashmead

- C. aonidium** (L.). Gloversville, Lyndonville, Menands (NYS); Ithaca; New Rochelle (USBE); Yonkers (NYS); NYC (USBE); **LI**: Locust Val. (USBE). Recorded from several of the above localities on rubber plant; well known as a greenhouse pest on a considerable variety of plants.  
**C. aurantii** (Mask.). CALIFORNIA RED SCALE. "NY" (Fern. Cat.).  
**C. dictyospermi** (Morg.). MORGAN'S SCALE. Rochester (USBE); Albany, on sago pine and palms (NYS); Millbrook, on cycad and palms (Morr); New Rochelle and NYC (USBE). A greenhouse species occurring on a variety of hothouse plants.  
**C. odontoglossi** (Ckll.). NYC (USBE). On *Albizia lebbek*.  
**C. perseae** (Comst.). NYC (USBE). On Anthurium and Spathyllum in greenhouse.  
**C. rossi** (Mask.). NYC (USBE). On *Macrozamia moorci* in greenhouse.  
**C. smilacis** (Comst.). NYC, on smilax, *Southwick* (NYS); **LI**: Maspeth, on smilax (Ols-NYS).  
**C. tenebriosus** (Comst.). Buffalo (USBE). On soft maple.

#### PSEUDISCHNASPIS Hempel

- P. bowreyi** (Ckll.). NYC (USBE). On Agave and Livistona in greenhouse.

#### AONIDIA Targioni-Tozzetti

- A. lauri** (Bouché). Albany (USBE); NYC, on bay tree (NYS); **LI**: Roslyn (USBE). Probably brought in on its European host.

#### GYMNASPIS Newstead

- G. achmeae** Newst. NYC (USBE). On Achmea, Ananas, Hohenbergia, Bromelia, and Billbergia, in greenhouse.



## LEPIDOSAPHES Shimer

- L. beckii** (Newm.). PURPLE SCALE. Rochester, Geneva (USBE); Albany (NYS); NYC, Inwood (USBE); **LI**: Maspeth, on orange and lemon (Ols, Felt). On Citrus and Elaeagnus in the greenhouse or market.
- L. gloverii** (Pck.). NYC, on orange and lemon (NYS). Undoubtedly brought in on its food plant.
- L. lasianthi** (Green). NYC (Sasscer-USBE). On *Camellia japonica*.
- L. newsteadi** (Sulc.). Rye (Sasscer-USBE). On *Sciadopitys*.
- L. philococcus** (Ckll.). NYC (USBE). On *Opuntia*.
- L. ulmi** (L.). OYSTER-SHELL SCALE. Recorded from the following counties: St. Lawrence, Herkimer, Lewis, Oswego, Fulton, Monroe, Orleans, Genesee, Erie, Ontario, Cayuga, Otsego, Schoharie, Saratoga, Washington, Albany, Rensselaer, Greene, Dutchess, Putnam, Sullivan, Orange, Westchester, Richmond, Queens, Nassau, Suffolk (Felt); records from many localities and hosts in the State (USBE). Is presumably generally distributed throughout the State. Occurs in NY on the following food plants: apple, ash, balm of Gilead, white birch, butternut, Cornus, Crataegus, grape, horse-chestnut, lilac, maple, Pennsylvania maple, silver magnolia, pear, privet, syringa, willow. Has been recorded in literature from a considerable variety of other plants.

## ISCHNASPIS Douglass

- I. longirostris** (Sign). THREAD SCALE. Albion, on Chinese fan palm, *JB. Achilles* (NYS); Fishkill, Pawling, Mamaroneck, NYC (USBE). **SI**: New Brighton (USBE). On various plants in greenhouse.

## PARLATORIA Targioni-Tozzetti

- P. pergandii** Comst. CHAFF SCALE. Rochester; Geneva; NYC.
- P. pergandii crotonis** Ckll. Rochester (USBE). On *Codiaeum variegatum*.
- P. proteus** Curt. Geneva (CU); Ossining (NYS); NYC, on tangerine (NYS); **LI**: Maspeth, on orange (Ols-NYS).
- P. theae** Ckll. Rochester, on Japanese maple (NYS); Schenectady, on Japanese maple (NYS).

ORDER DERMAPTERA<sup>29</sup>

Compiled by WILLIAM T. DAVIS

## FAMILY FORFICULIDAE

## SUBFAMILY LABIDURINAE

## ANISOLABIS Fieber

- A. maritima** Gén. Larchmont, Nov, *TDO'Connor* (Hebard); Palisades of the Hudson, along the shore, May (*Ds*); along the East River under rubbish, very common (Joutel); **SI**: collected and still to be found at numerous localities along the easterly shore of the island from St. George to Totten-

<sup>29</sup> *Adventive species*.—The following adventive species have been reported in New York State: *Labidura riparia* (Pallas), **SI**, male, in head of imported lettuce, Jan, 1916; *Prolabia pulchella* (Serv.), original type from Niagara; *Doru lineare* (Esch.), **SI**, male, in spinach, Feb 4, 1920. *Euborellia annulipes* (Lucas) has been found in Mass.

ville; in 1880 it was a common species under stones and drift on the shore at St. George Point where the present ferry slips are; **LI**: Rockaway Beach, Sep; North Beach, Je, *Ols*; Center I., Oyster Bay, May; Southold, Sep; Greenport, Aug; Orient, Jl, eggs and young (*Ds*), Sep, *Lath*; Gardiners I., May, nymph, *Cy*.

## SUBFAMILY LABIINAE

## LABIA Leach

- L. minor** L. Ithaca, May-Aug, under a light (*CU*); Tuxedo, May, *TDO'Connor* (Hebard); Mosholu, Van Cort. Pk., *Sf*; Bronx, Aug, in numbers at light, *Wat*; Riverdale, Sep, *Woodr* (*Ds*); Manhattan I., Central Pk., Je, Sep, *Joutel*; **SI**, a male taken in May, a female in Aug, and a second male in Je; it sometimes comes to light and is also taken on plants; **LI**, represented in the collection of the Brooklyn Institute of Arts and Sciences.

## SUBFAMILY FORFICULINAE

## DORU Burr

- D. aculeatum** Scud. "NY (Coll. Uhler)" is cited by Scudder (Proc. Boston Soc. Nat. Hist., vol. 18 (1875-76), p. 263) and by Rehn and Hebard (Journ. N. Y. Ent. Soc., Je, 1914); **SI**, one female found on the edge of the meadows near Dongan Hills, Sep; **LI**: Hewlett, Nov, in rotten birch log, *Schott*.

## FORFICULA Linnaeus

- F. auricularia** L. EUROPEAN EARWIG. E. Aurora, Aug, numerous specimens of both sexes captured out-of-doors by JB Achilles. This introduced earwig has become well established at Newport, RI, where Morse states the occupied area is ten square miles.

## ORDER COLEOPTERA

General Editor, CHARLES W. LENG

Staten Island Institute of Arts and Sciences

The list of Coleoptera is based on published lists and numerous manuscript communications. It is fairly complete in some families, especially for the southeastern part of the State where records have been obtained from many collectors in New York City and vicinity. In the Rhynchophora and in the Staphylinidae and other families of small beetles, however, many names may be added by further study and collecting. On the other hand, a few of the names included may eventually prove to be synonyms. The distribution of some species within the State is imperfectly shown because records for them are lacking from the central and western counties. Using as a guide those species for which the records are comparatively complete, it is evident that there are on Staten Island, on Long Island, and in the lower Hudson Valley, a considerable number of southern species; and in the higher parts of the Catskill and Adirondack Mountains, a number of northern species. Otherwise there is no clear evidence in the records assembled of any strong faunal boundary within

the State. The sequence of families, genera, and species is that of Leng's Catalog, except in a few cases in which genera and species have been changed about for reasons explained in the text. The Leng catalog numbers precede each species, for convenience in referring to that work.

## FAMILY CICINDELIDAE

## TETRACHA Hope

- 38 *T. virginica* L. **LI**: Central Pk., Sep (Ds).

## CICINDELA Linnaeus

- 39b *C. formosa* Say var. *generosa* Dej. Keene Val., Je (Not); Elizabethtown, Aug (Harr); Horicon, Jl 17, 1925 (Frost); Luzerne, Jl (HarrED); Rochester (M&W); Ballston, Je (Harr); Schenectady (Dt); Albany (Lint); Karner, Je (NYS); Hoosick, Je (Harr); Yonkers, Sep (Harr); White Plains (Sq); Bloody Pond, Sep (Harr); Guymard, Je (HarrED); Mosholu, Jl (Bno); Van Cort. Pk., Oct (Bno); **SI**: Watchogue, Mar-Oct (L&D); **LI**: Springfield Gardens, Sep (HarrED); Cold Sp. Harb., Sep (Ds); Aqueduct, Sep (Ds); Amagansett, Sep (Ds); Yaphank, Je (Ds); Wading R., May-Aug (Ds); Hauppauge, Je (Ds); Quogue, Sep (HarrED).
- 42 *C. purpurea* Oliv. Keene Val., Jl, Sep (Not); Jay, Aug (Harr); Lewis Co., Jl (NYS-Hill); New Russia, Aug (CU); Potsdam, Ap (HarrED); Newport, Ap (NYS); Axton, Je (M&H); Onondaga Co., Mar 18 (H); Rochester (M&W); Avon, Feb, May (Cls); Olcott (Dt); Buffalo (Z&R, HarrED); Pike, Je (NYS); Castile, Je, *Brad* (Flet); Rock City, Je (Ds); Potters, Je (Ds); Ithaca, May-Je, Sep (Morr); Stamford, Jl (HarrED); Saratoga Sps., Je (HarrED); Haines Falls, Jl (HarrED); DeBruce, Je, Sep (Ds, HarrED); East Branch, Oct (Ang); West Pt. (Robn); White Plains (Sq); NYC (Lg, Bt); **SI**, Mar-Sep, not common in recent years (L&D); **LI**: Bethpage, May (HarrED); Islip, Sep (HarrED); E. Hampton, Sep (HarrED); Amagansett, Sep (Ds); Calverton, Sep (Ds); Yaphank, May-Oct (Ds); Wyandanch, May (Ds); Southold, Sep (Ds); Wading R., May-Je (Ds); Gardiners I., Je (Ds).
- 44 *C. splendida* Hentz. "NY" (Lec), also from Schaupp Coll. (HarrED). It is possible that these records refer to *limbalis* (Lg).
- 45 *C. limbalis* Klug. Buffalo (Z&R); Westfield, May (Not); Rock City, Je (Ds); West Pt., *Robn* (Ds); Peekskill, Jl (Harr); Bear Swamp, Ramapo, Ap-Sep (Ds); Southfields, Oct (Ds).
- 48 *C. ancocisconensis* Harr. Buffalo (HarrED); Ebenezer, Je (Rein); Cazenovia Cr., May-Aug (Rein); DeBruce, Je, Sep (HarrED, Ds).
- 49 *C. duodecimguttata* Dej. Raquette L., Jl (Harr); Wilmington, Jl-Aug (Ds, Dt); Elizabethtown, Aug (HarrED); Jay Mt., Aug (HarrED); Cranberry L., Je-Aug (H); Keene Val., May-Aug (Not); Luzerne, Je (HarrED); Clearwater, Jl (HarrED); Buffalo (Z&R); Ebenezer, Je (HarrED); Salmon Cr. (M&W); Tarbel, Je (Ds); Ithaca, Aug (Dt); Stamford, Aug-Sep (Harr); North Branch, Aug (Schaupp); Pawling, Aug-Sep (HarrED); L. George, Aug (HarrED); **SI**, May-Oct (L&D); **LI**: Far Rockaway, Sep (HarrED); Coram, May (Ds); Yaphank, Sep (Ds).

- 50 **C. repanda** Dej. Abundant in partly damp localities throughout the State (Lg). Keene Val. (Lint); Potsdam (Houghton); Axton, Je (M&H); Ausable Pt., Sep (Not); Raquette L., Jl (HarrED); Wilmington, Jl (Ds); Elizabethtown, Aug (HarrED); Long L., Piseco, L. Pleasant, Jl-Aug (NYS); Cranberry L., Je (H); Mountain View, Sep (Not); Clearwater, Jl (HarrED); Rochester (M&W); Rochester Jct., Jl (CU); Buffalo (Z&R); Ebenezer, Je (HarrED); Westfield, May (Not); Castile, *Brad* (Flet); Geneva, Middlesex, Aug (Cls); Ithaca, Jl (CU); Karner, Ap-Sep (NYS); Guymard, Je (HarrED); L. George, Jl (HarrED); Hoosick, Je (Harr); Saratoga, Je (HarrED); DeBruce (Dow); Callicoon, Jl (HarrED, Ds); Quaker Hill, Sep (HarrED); West Pt. (Robn); Newburgh (Robn); Peekskill, Hastings, Yonkers, Dobbs Ferry, May-Jl (HarrED); White Plains (Sq); Van Cort. Pk., Oct (Bno); **SI**, Mar-Oct, often rather numerous on moist areas (L&D); **LI**: inhabits the loose sand beyond the beach (Lg); Flatbush, Coney I., Rockaway, Lawrence, Ruffle Bar, Long Beach, Oak I., Patchogue, Edgemere, Bay Shore, Quogue, Easthampton, Nissequogue, May-Sep (HarrED); Amagansett, Wading R. (Ds); Fire I., Sep (Ds); Gardiners I., Je (Ds); Orient, *Lath* (NYS).
- 51 **C. hirticollis** Say. **SI**, on seashore from early spring until late fall (L&D); **LI**: Coney I., Aug (Ds); Rockaway, Long Beach, Je-Aug (Harr); Oak I., Fire I. (Ds); Patchogue, Sep (HarrED); Promised Land, Wading R. (Ds).
- 51b **C. hirticollis** var. *rhodensis* Calder. **LI**: Gardiners I. (Ds); Far Rockaway (HarrED).
- 53 **C. tranquebarica** Hbst. (*vulgaris* Say). Wilmington, Jl (Ds, Dt); Elizabethtown, Aug (HarrED); Axton, Je (M&H); Raquette L., Jl (Harr); Jay Mts., Aug (HarrED); Potsdam (Houghton); Keene Val., Aug (Not); Mountain View, Sep (Not); Cranberry L., Je-Jl (H); Rochester (M&W); Buffalo (Z&R); Avon, May (Ols); Rock City, Je (Ds); Ithaca, Mar (Morr); DeBruce, Je, Aug-Sep (HarrED); Cooks Falls and East Branch, Oct (Ang); Newburgh (Robn); Yonkers, Jl (HarrED); White Plains (Sq); **SI**, Mar-Sep, found only on a sand dune at Old Place in recent years (L&D); **LI**: West Hills; Wyandanch (Sf); Yaphank; Southold; Calverton, Springs, Gardiners I., Montauk, Mar-Sep (Ds); W. Hampton, E. Hampton, Quogue, Amagansett, Islip, Sep (Harr); Orient, Oct, *Lath* (Ds).
- 53c **C. tranquebarica** var. *horiconensis* Lg. Cranberry L., Jl (H); L. George (Lg); Pembroke (CU).
- 59 **C. longilabris** Say. Jay, Jl-Aug (HarrED, Britton); Mt. Whiteface, Jl (Ds); Keene Val., Jl-Aug (Not); Axton (M&H); Long L. (Ds).
- 68a **C. scutellaris** Say var. *lecontei* Hald. Elma, May (NYS).
- 68c **C. scutellaris** var. *rugifrons* Dej. Confined to the pine-barren regions of LI (Lg). Immaculate forms have been found at Aqueduct, Quogue, Southampton, and Amagansett in Sep (HarrED). The Aqueduct locality published by Joutel (Journ. N. Y. Ent. Soc., vol. 10, p. 249) is now destroyed (Lg). A form intergrading this with var. *modesta* very rarely found at Aqueduct and Southampton (HarrED). **LI**: Jamaica (Schaupp); Cold Sp. Harb., Aqueduct, Valley Stream, Springs, Calverton, Manorville, Yaphank, Wading R., May, Aug, Sep (Ds); Amagansett, E. Hampton, Southampton, Quogue, Islip, Springfield, Sep (HarrED); Shinnecock Hills, Sep, *Lg* (Bt).



- 68 **C. scutellaris** var. *modesta* Dej. Confined to pine barrens on LI and SI. Immaculate specimens mimicking *nigrior* formerly found at: Aqueduct (Lg); **SI**, Ap, Sep-Oct (L&D); **LI**: Cold Sp. Harb., May, Sep (Sf, Ds); Aqueduct, Aug-Sep (HarrED); Valley Stream, Aug (HarrED); Springfield, Sep (HarrED).
- 69 **C. sexguttata** Fab. Wilmington, JI (Ds); Keene Val., May, Aug (Not); Newport, May (NYS); Elizabethtown, Aug (HarrED); Potsdam (Houghton); Cranberry L., Je-JI (H); Lewis Co, Je (Hill-NYS); Luzerne, Je (HarrED); Rochester (M&W); Syracuse, Ap, May (H); Buffalo (Z&R); Avon, Geneva (Cls); Castile, *Brad* (Flet); Pike, May (NYS); Westfield, Je (NYS); Rock City, Je (Ds); Elmira, May (Diven); Ithaca, May-Je (Morr); McLean, Mar (Morr), May (Ds); Tarrytown, Je (Ds); Saratoga, Je (HarrED); De Bruce (NYS); Schoharie (Not); Albany (Lint); Delmar, May (NYS); Nassau, May (NYS); Hoosick, Je (HarrED); West Pt. (Robn); Peekskill, Je; Hastings, Cornwall, May-JI (HarrED); Haines Falls, JI (HarrED); Guymard, Je (HarrED); White Plains (Sq); West Farms, May (Harr); **SI**, Mar-Aug (L&D); **LI**: Flushing, Wyandanch, Smithtown, Wading R., Yaphank, Gardiners I., Mar-Sep (Ds); Nissequogue, Je (HarrED); Farmingdale, JI (CU). Inhabits climax forests, openings, paths, etc., sometimes in gardens (Lg). Rare, without spots, at Hoosick, Je; with two spots at Peekskill and Hastings, May; often with eight spots (HarrED).
- 69c **C. sexguttata** var. *harrisi* Lg. Elizabethtown, Aug (Lg); Luzerne, JI (HarrED); L. George, Aug (Lg); DeBruce, Je, Sep (Dow,Ds); Quaker Hill, Aug (HarrED); Cornwall, JI (HarrED); Cooks Falls, Aug (Ang); E. Jewett, Aug (Ds); Stamford, Catskills, Aug (HarrED). An altitudinous variety of *sexguttata* (Lg).
- 70 **C. patruela** Dej. Conesus L., Je (Ds); Karner, May, Sep (NYS); West Pt. (Robn); Peekskill (HarrED). Confined to mountains; local (Lg).
- 70a **C. patruela** var. *consentanea* Dej. Confined to pine-barren regions of LI and known from few localities (Lg). **LI**: Port Jefferson (HarrED); Wyandanch, Mar-Apr, *Schott* (HarrED); Riverhead, Aug (Ds); W. Hampton, Sep (Wood); Quogue, Sep (HarrED).
- 74 **C. punctulata** Oliv. Upper Jay, Aug (Not); Jay Mts., Aug (HarrED); Crown Pt., Aug (Not); Elizabethtown, Aug (HarrED); Luzerne, JI (HarrED); Keene Val., JI (Not); Geneva (Cls); Rochester (M&W); Ithaca, Sep (CU); Saratoga, Aug (Dt); L. George, Aug-Sep (HarrED); Albany, Aug (Felt); DeBruce, Sep (HarrED); Quaker Hill, Aug-Sep (HarrED); Haines Falls, JI (HarrED); Kinderhook, JI (HarrED); Yonkers, JI (HarrED); Montrose, JI (HarrED); West Pt. (Robn); White Plains (Sq); Moshulu, JI (Bno); **SI**, Je-Sep, the most common species (L&D); **LI**: Far Rockaway, E. Hampton, Yaphank, Sep (HarrED); Farmingdale, JI (CU); Southold, Montauk, Sep, Gardiners I., Aug (Ds). Widely distributed; flying to light and occasionally seen even in city streets and garden paths (Lg).
- 79 **C. abdominalis** Fab. **LI**: Riverhead, near Bald Hill; also in sandy road near Peconic R., Aug (Ds).
- 84 **C. marginipennis** Dej. Callicoon, JI (HarrED, Lg, Ds); confined to pebbly flats of Delaware R. (Lg).
- 93 **C. unipunctata** Fab. Ft. Green, Je (Schaupp); Bronx Pk., Je (Lg, Bt); **LI**: Brooklyn (Schaupp). The records for this species are few and ancient, and do not clearly indicate it as an inhabitant of this State.



- 101 **C. dorsalis** Say. Albany, 1867 (NYS); **LI**: Coney I., Rockaway Beach, Jl-Sep (Sf); Fire I., Oak I., Long Beach, Edgemere, Arverne, Jl-Aug (HarrED). Confined to sea beach of LI, Montauk, etc.; formerly found also on SI, but probably exterminated about 1895 by commercial use of beaches (Ds). *C. signata* Dej. is a nearly immaculate form of *dorsalis*, found at Fire I., Rockaway, Coney I. (HarrED).
- 104 **C. marginata** Fab. Confined to muddy beaches of SI and LI (Lg); NYC, Ang (H); **SI**, Jl-Aug (L&D); **LI**: Coney I. (Lg); Sheepshead, Aug (NYS); Northport, Canarsie, Jl-Sep (Schaupp); Baywater, Far Rockaway, Ruffle Bar, Edgemere, Jl-Aug (HarrED); Wading R., Jl (Ds); Gardiners I., Aug (Ds); Montauk, Jl (Ang).
- 108b **C. cuprascens** Lec. var. **puritana** Horn. "NY" (Schaupp). The only record is ancient and indefinite. This species lives on river banks in sandy beaches and occurs in midsummer (Lg).
- 110 **C. lepida** Dej. Buffalo (Z&R); **LI**: Coney I., Je-Jl (Lg,Bt); Rockaway Beach (Lg); Long Beach, Arverne, Jl (HarrED). Confined in this State to limited areas of white sand near the beach (Lg).

## FAMILY CARABIDAE

Compiled by HOWARD NOTMAN

## SUBFAMILY CARABINAE

## SCAPHINOTUS Dejean

- 125 **S. elevatus** Fab. Bronxville, Aug (Ds); NYC and vic. (Not); Van Cort. Pk., Aug (Woodr); **SI**, formerly common (L&D); **LI**: Jamaica Woods, May (Schaupp); Yaphank, May-Oct, *Shoe* (Eng); Brooklyn, Central Pk., May-Oct, *Shoe*; Syosset, Nassau Co, Nov, *Eng* (Not).
- 128 **S. viduus** Dej. Axton, Je (M&H); Whiteface Mt., 4200 ft., Oct (Lg); Keene Val., 1000 ft., Aug (Not); Crown Pt., Aug (Not); Keeseville, Sep (Lg); Hope (Castle); Mt. Hopkins, 2500 ft., Je (Not); Batavia, Je, *Kngt* (Lg); Buffalo and vic. (Z&R); Cattaraugus Co, Je, *Ds*; Tompkins Co, several localities (Dt, Vdyk); Ithaca, Mar, *Kngt*; Hunter, Je; Catskills, *Vdyk* (Pears, Roeschke); North Branch (Schaupp); Yonkers (L&B); Mosholu (L&B); W. Dunwoodie; Manhattan I., *Joutel*; NYC, Oct (Lg); **SI**, rare (L&D); **LI**: Inwood, Jl, Sep, *Skinner*, Oct, *Joutel*.

## NOMARETUS LeConte

- 134 **N. bilobus** Say. Whiteface Mt., Jl, *Ds*; Wallface Mt., 3000 ft., Jl, *Nic* (Not); Buffalo vic., *Rein*; Catskills, Jl (Beyer).

## SPHAERODERUS Dejean

- 160 **S. canadensis** Chd. Mt. Whiteface (Lg); Mt. Marcy, 3500 ft., Jl (Not); Wilmington, 1500 ft., Aug (Dt); Keene Val., 1500 ft., Je (Not); Sodus Pt., Je (Not); Monroe Co, *Moore* (Wendt); Rock City, Je, *Dt* (Vdyk); Ithaca, Ap (Vdyk), Oct 9, *Walton* (Vdyk); Coy Glen, Jl, *Dt* (Vdyk); Caroline, Ap, *Dt* (Vdyk); Hebron (Lg); Slide Mt., 2500 ft., Jl, *Shoe*; North Branch (Schaupp); DeBruce, Jl, *Shoe* (Lg); Minnewaska, Aug (Nic).

- 162 **S. lecontei** Dej. Upper Jay, Sep (Lg); Keene Val., Je, Aug, Oct (Not); Chateaugay, Sep (Lg); Johnstown, Oct (Vdyk); Syracuse, Ap (H); Monroe Co (*M&W*); Karner, Nov (Vdyk); Olcott, Ap (Dt); Buffalo vic. (Z&R); Erie Co, May (Dnd); Rock City, Je; Red House, Je (Not); Ithaca, Ap (Kngt); McLean, May, *Ds*; Albany, *Lint*; Whitehall, Oct (Not); W. Hebron, Oct (Lg); Catskill (Lg); Ulster Co, Sep (Lg); Peekskill, *Sherman*; West Pt., *Robn*; Greenwood L.; Ramapo, Ap, *Ds*; Mosholu; White Plains, Ap (Sq); Bronxville, Mar–Ap (Woodr); NYC, Sep (Lg); Inwood, Manhattan I., Oct, Sep, *Ds*; Manhattan I., Sep, *Joutel*; Van Cort. Pk., Mar–Ap (Not, Woodr); **SI**: Mar–May, Nov, once not uncommon, now rare (L&D); Sandy Brook, Ap; **LI**: Yaphank, Jl–Aug, Wading R., May, *Ds*; Brooklyn, Ap–Oct, *Shoe*.
- 162a **S. lecontei** var. **niagarensis** Lap. “NY”, *Lec*. Probably only a synonym of *lecontei* (Nic).
- 164 **S. nitidicollis** Chev. var. **brevoorti** Lec. Mt Whiteface, Sep (Lg); Wallface Mt., Je (Quirsfeld & Nic); Green Mt., 3000 ft., Jl (Not); Mt. Marcy, 5000 ft., Jl (Not).

## CARABUS Linnaeus

- 170 **C. sylvosus** Say. Keene Val., Sep (Not); Cascade Lakes, Aug, *Brb*; Gloversville, May; Monroe Co, May, *M&W*; Buffalo (Dnd); Carmel, Aug; **LI**: near Ridgewood, Greenville, Je (Schaupp); Yaphank (Eng); Bellport, Wading R. (Nic). Apparently occurs wherever pines are found (Nic).
- 171 **C. serratus** Say. Keene Val., May–Jl, Mooers, Sep (Not); Gloversville, May (Sf); Monroe Co, *M&W*; Buffalo vic. (Z&R); Rock City, Je (Vdyk); Ithaca, Aug (Vdyk); Butternut Cr., May (Dt); Larch Meadows, Tompkins Co, Je (Dt); Catskill, Jl, Catskills, Aug (Sf); West Pt., *Robn*; Morrisania; Peekskill (Vdyk); Ramapo Mts.; Lowerre, Ap (Woodr); NYC vic., Ap (Woodr); **SI**, Mar–Je (L&D); **LI**: Bronx Pk., Brooklyn, Ap–Aug, *Shoe*.
- 172 **C. limbatus** Say. Gloversville, Aug (Lint); Olcott, Je (Dt); Monroe Co (*M&W*); Buffalo (Z&R); Westfield, May (Not); Ithaca, Ap, Aug, Larch Meadows, May, Six Mile Cr., Sep (Dt); Windsor, Je (Not); Karner, Ap, Kenwood, May (Lint); Washington Co, Je, *Lg*; W. Hebron, Je (Lg); Greenwood L.; Poughkeepsie, Je (Lint); West Pt.; Pine I. (Ang); Peekskill (Vdyk); White Plains, Mar–Aug, *Brownell*; Carmel, Aug; Mosholu; NYC, Ap–May, Sep, *Shoe*; Van Cort. Pk., Mar–Ap (Woodr); **SI**, Mar–Aug (L&D); Clifton, Ap; Clove Val., Jl–Aug, *Ds* (Not); **LI**: Greenville, Jamaica Woods, Bay Ridge, May–Sep (Schaupp); Yaphank, Sep, Oct, *Ds* (Not); Brooklyn, Ap–May, Sep, *Shoe*; Parkville; Selden, Aug, *Ds*; Central Pk., Ap (Not); Half Way Hollow Hills, Jl, Wading R., May, *Ds* (Not). Common everywhere under stones and boards, and in bait bottles (Nic).
- 173 **C. vinctus** Web. Buffalo (Z&R); Cedar Hill, Ap; Karner, Jl, *Hill*; West Pt., *Robn*; Nyack, Je, *Brownell*; Westchester Co, May, Ap (Woodr); Van Cort. Pk., Mar–Ap (Woodr); NYC, Inwood, *Ds*; **SI**, Ap–Je, Sep (L&D, Not); **LI**: Pennybridge, E. New York, Bay Ridge, May–Sep (Schaupp). Found with preceding species but not so abundant, and, although fairly generally distributed, more local (Nic).

- 175 **C. nemoralis** Mull. Monroe Co, May (M&W); White Plains, Mar-Nov (NYS); Bronx (Ang); Van Cort. Pk., May, Ang; **SI**, May, *Ds*; **LI**: Winfield, Jl (Ols); Brooklyn, Ap-May, *Schott*, *Shoe*.

## CALOSOMA Weber

- 176 **C. externum** Say. Newburgh, *Martin*; NYC; Central Pk., *Ds* (*Martin*); **SI**, Je-Jl, *Ds*; **LI**: Ridgewood, Greenville, Jl-Sep (*Schaupp*).
- 180 **C. scrutator** Fab. Buffalo (Z&R); Monroe Co, *M&W*; Ithaca, Jl (Vdyk); Albany, *Lint*; Poughkeepsie, Je (Sf); West Pt. (Robn); Nyack, Je, *Brownell*; White Plains (Sq); NYC, May-Jl, *Ds* (Woodr); **SI**, Je-Aug, *Nabenhauer* (L&D); **LI**: Orient, May, Jl, *Lath* (Not-NYS); Rockaway Beach, Je-Jl, *Shoe* (Vdyk); Coney I. (*Schaupp*); Greenbush, *Jordan* (*Lint*); Yaphank, Je, *Ds*; Long Beach, Babylon, *Bradford*; Brooklyn, Je-Jl, *Shoe*; seashore (Not). Often common in wash-up on seashore, Je-Sep (Nic).
- 181 **C. wilcoxi** Lec. Buffalo (Z&R); West Pt. (Robn); White Plains (Sq); NYC, May-Je (*Schaupp*&Woodr); **LI**: Bellport, Wading R., May, *Nic*&*Ds* (Nic); Rockaway Beach, May-Je, *Shoe* (Woodr, Not); Wading R., Je (Not); Orient *Lath* (NYS); Long Beach, *Brownell* (Lg).
- 182 **C. sycophanta** L. Albany (*Lint*); White Plains (Frost, Sq); **LI**: Flatbush (*Schott*, Sf).
- 183 **C. frigidum** Kby. Newport, May, Saranac Inn, Je (Felt); Wallface Mt., 3100 ft., Jl (Nic); shore of L. Ontario, near Pulaski, Je, *Chapman*; Olcott, Jl (Dt); Monroe Co, *M&W*; Buffalo (Z&R); Pike (Felt); Batavia, Ap, Je, *Kngt*; E. Aurora (Dnd); Chippunk Swamp, Vandalia, Je, *Ds* (Not); Rock City, Je, *Ds* (Not); Castile, (*Brad*, *Flet*); Tarbel, Je, *Ds*; Elmira, May (Diven); Nichols, May (Not); Ithaca, Je (Dt); Albany, Je (Felt); Garrison, *Cattell*; West Pt., Je (Robn); Bronxville, Je (Woodr); White Plains, Je (Sq); **LI**: Bellport (Nic); Wading R., May, *Ds* (Nic); Nissequogue, Je, *Ds*.
- 184 **C. sayi** Dej. Vic. NYC tollgate, May (*Schaupp*); **SI**, *Ds*; **LI**: Babylon, Je (*Bradford*).
- 204 **C. calidum** Fab. Peru, Je, *Cy&Fbs* (Vdyk); Axton, Je, *M&H*; St. Lawrence Co (Houghton); Wilmington, Jl, *Ds*; Keene Val., May-Je (Not); Lowville, *Hough*; Monroe Co, *M&W*; Olcott, May, Jl (Dt); Batavia, Je, Jl, Aug, *Kngt*; E. Aurora, Boston (Dnd); Buffalo (Z&R); Ithaca, Ap-Je, *Hamilton* (Vdyk, Dt); Butternut Cr., May (Dt); McLean Bogs, Je (Dt); Tarbel, Je, *Ds*; Groton, Je, *Chapman*; Elmira, May (Diven); Windsor, May (Not); E. Jewett, Aug, *Ds*; Orange Co, Ap, *Faure*; Albany, *Lint*; West Pt. (Robn); Nyack, Je, *Brownell*; White Plains, Ap (Sq); NYC, May-Oct (div.); **SI**: Ap-Je, *Ds*; Castleton Grounds, St. George, Sep, *Ds*; **LI**: Brooklyn (Vdyk); Orient, May-Je, *Lath*; Hauppauge, Je, *Ds*; Bergen Beach, May; Brooklyn, Apr-Jl, *Shoe*. Common in fields (Nic).

## ELAPHRUS Fabricius

- 222 **E. clairvillei** Kby. Wallface Mt., Jl, common (Not&Nic); Ausable L., Jl (Not); Mt. Redfield, 3000 ft., Jl (Not); top of Whiteface Mt., Jl, *Ds*; Cape Vincent, Sep (Not); Oakfield, Je (Not); Buffalo, *Rein*; Ithaca, May (Dt); McLean Bogs, Jl (Dt).

- 230 **E. riparius** Linn. Tompkins Co; Inlet Val., Jl (*Dt*); Beebe L., Jl (*Vdyk*); Ithaca, Je (*Vdyk*); N. Lansing, Je (*Vdyk*).
- 225 **E. olivaceus** Lec. L. Tear, 4200 ft., Jl, Moss Pond, 4200 ft., Mt. Redfield, Wallface Mt., 3000 ft., Jl (*Not*); McLean Bogs, May, *Diven* (*Vdyk*, *Dt*); Catskills, *Ulke* (Lec).
- 226 **E. cicatricosus** Lec. Buffalo, Je; Red House, Je (*Not*); Larch Meadows, Aug, *Hamilton* (*Vdyk*); Ringwood, Jl, *Dt* (*Vdyk*); Windsor, May (*Not*); Orangeburg, Ap-May (*Not&Nic*); **LI**: Steinway, *Julich* (L&B); Brooklyn, May-Jl, *div*.
- 228 **E. fuliginosus** Say. Lower Ausable L., Keene Val. (*Not*); Tarbel, Je, *Ds*; Catskill; **LI**: Brooklyn, Ap, May, *Shoe* (*Sf*); Jamaica Bay Marshes, Ap (*Woodr*); Canarsie, Ap-May (*Not*).
- 233 **E. ruscarius** Say. Common everywhere along mud flats, Ap-Je (*Nic*); Ausable L., Jl, Moss Pond, 4200 ft., Jl, Crown Pt., Jay, Aug, Mountain View, Sep (*Not*); Newport, May; St. Lawrence, *Houghton*; Waterville, Je (*Not*); Syracuse, May (*H*); Monroe Co, *M&W*; Sodus Pt., Je (*Not*); Batavia, May, Je, *Kngt*; Buffalo (Z&R); Erie Co (*Dnd*); Pike, Je (*NYS*); Westfield, May; Mayville, May (*Not*); Chautauqua, *Thompson*; Inlet Val., Jl, *Dt* (*Vdyk*); Cascadilla Cr., May (*Vdyk*); Ithaca, May-Je (*Vdyk*); Tarbel, Je, *Ds*; Windsor, Je (*Not*); Schoharie, Je (*Not*); Greenville (*Schaupp*); Wingdale (*Vdyk*); West Pt., *Robn*; Ft. Hunter, May-Je (*Not*); Westchester, Ap (*Woodr*); White Plains (*Sq*); Bronxville, May (*Woodr*); Van Cort. Pk., Je (*Woodr*); NYC (*Martin*); West Farms, Mar, *Joutel*; **LI**: E. New York, Brooklyn, Ap-Je, May, *Ds*, *Shoe*; Ft. Hamilton, Ap (*Woodr*).

## BLETHISA Bonvouloir

- 237 **B. quadricollis** Hald. Buffalo (Z&R); McLean Bogs, Jl (*Dt*, *Vdyk*); Catskill, Sep.
- 238 **B. multipunctata** L. St. Lawrence Co, *Houghton*.

## LORICERA Latreille

- 241 **L. caerulescens** L. (*pilicornis* Fab.). Ausable L., Jl-Aug, Crown Pt., Aug, Mountain View, Sep (*Not*); Rochester (M&W); Batavia, Je, *Lg*; E. Aurora (*Dnd*); McLean, Ap (*Flet*).

## NOTIOPHILUS Dumeril

- 246 **N. aeneus** Herbst. Keene Val., Je-Jl, Mooers, Sep (*Not*); Tarbel, Je, *Ds*; McLean, Ap (*Flet*); West Pt. (*Robn*); NYC, Je-Sep (*Schaupp*); **SI**, Ap, Jl, *Lg*; **LI**: Rockaway Beach, *Shoe* (*Vdyk*); Wading R., May, *Ds*; Parkville; Aqueduct, May-Je, *Shoe*; Far Rockaway, Je (*Woodr*).
- 247 **N. semistriatus** Say. Mt. Whiteface, 2000 ft., Aug, *Bdy*; St. Lawrence Co, *Houghton*; Peekskill (*Vdyk*); Nyack, Je, *Brownell*; NYC (*Schaupp*); **SI**, Je, *Lg* (Fall, Say); **LI**: Wading R., May, Yaphank, Sep, Half Way Hollow Hills, Jl, *Ds*.
- 248 **N. aquaticus** Linn. Keene Val., Ap (*Not*); Mt. Marcy, 5300 ft., Jl, Oct (*Not&Lg*), 4500 ft., Jl, *Lg* (Fall&Not); Mt. Redfield, 4500 ft., Moss Pond, 4200 ft., Jl (*Not*); Mt. View, Sep (*Not*).

- 251 **N. novemstriatus** Lec. Batavia, Je, *Lg*; West Pt. (Robn); Peekskill (Vdyk); Bronxville, Mar–Ap (Woodr); **SI**, Ap, Je, Nov (Lg&Shoe); **LI**: West Hills, Ap, *Ds*; Aqueduct, Mar, *Shoe*; Yaphank, May (Not); Farmingdale, Mar (Not).
- **N. parvus** Csy. Catskills, *SmHH* (Csy). NY, type locality (*Lg*).
- 252 **N. nemoralis** Fall. Wallface Mt., 3000–4000 ft., J1 (Not).

## NEBRIA Latreille

- 276 **N. sahlbergi** Fisch. Summit of Mt. Marcy, J1 (Not); Monroe Co (M&W); Pike (Say).
- 285 **N. suturalis** Lec. Buffalo (Z&R).
- 292 **N. pallipes** Say. Upper Ausable L., J1–Aug, Ausable Pt., Sep, Mooers, Sep (Not); Wilmington, Plattsburg, J1, *Ds* (Not); Mt. Marcy, Dec; Mountain View, 1500 ft., Sep, Chaumont, Sep (Not); Chateaugay L., 2000 ft., Aug–Sep; Waterville, Je (Not); Monroe Co (M&W); Forest Lawn, Je, *Zab* (Not); Buffalo (Z&R); Conesus, Aug; Pike, Je; Montour Falls, Je (H); Chautauqua, *Thompson*; Westfield, May (Not); Ithaca, J1, Aug–Sep, *Hamilton* (Vdyk&Dt); Buttermilk Cr., J1 (Dt); Inlet Val., J1 (Dt&Vdyk); Ft. Hunter, Je (Not); Schoharie, Je (Not); Albany, *Lint*; W. Hebron, Je (Woodr); Washington Co, Je, *Lg*; West Pt., Je, Aug, *Robn&Ds* (Not); Peekskill; White Plains, Sep, *Sq* (Sf); Bronx R. (L&B); Bronx Pk., J1, *Shoe*; **SI**, Je–Sep, Nov, *Ds*; **LI**: Forest Pk., Je (Not). Common everywhere near water all the year (Nic).

## PASIMACHUS Bonvouloir

- 302 **P. sublaevis** Beauv. **SI**, *Bischoff*; **LI**: Coney I., Je (Schaupp); Rockaway Beach, Je–J1, *Shoe* (L&B); Fire I., Sep, *Ds*; Long Beach, J1 (*Lg*); Rockaway.
- 302a **P. sublaevis** var. *substriatus* Hald. **LI** (Hald&Lec); Coney I. (Schaupp).
- 308 **P. depressus** Fab. **SI** (Bischoff, Stortz & Not); **LI**: Yaphank, *Wks* (Sf); Coram, Yaphank, Aug (Nic).

## SCARITES Fabricius

- 316 **S. subterraneus** Fab. Common everywhere, even in cities, almost all the year around (Nic); Buffalo (Z&R); Boston (Dnd); Albany, Oct, *Lint* (Say); W. Hebron, Je (*Lg*); West Pt., *Born*; Peekskill (Vdyk); Bronx, Ap; Dunwoodie; White Plains, J1 (*Sq*); NYC vic. (Schaupp); NYC, Aug, Oct (Woodr); Central Pk., Nov, *Ds*; **SI**, spring–Dec, *Lg* (Vdyk); **LI**: Nissequogue, Je, Wading R., Aug, *Ds*; Astoria; Brooklyn, Ap; Orient Pt, May, *Lath* (Say).

## DYSCHIRIUS Bonvouloir

- 323 **D. aeneus** Dej. (*integer* Lec.). Croton, Je, *Brownell* (*Lg*).
- 324 **D. nigripes** Lec. Mooers, Sep, Ausable Pt., Sep, Chapel Pond, Je, Upper Jay, Aug, Crown Pt., Aug, Lowville, Je, Waterville, Je (Not); Syracuse, May (H); Sodus Pt., Je (Not); Monroe Co (M&W); Oakfield, Je (Not); McLean Bogs, Aug, *Dt* (Vdyk); Ithaca, J1, Howland I.,



- Nov (Vdyk); Washington Co; Peekskill (Vdyk); **SI**, J1, *Ds*; **LI**. Common in spring. Generally distributed (Nic).
- 330 **D. longulus** Lec. Keene Val., May–Aug, Wallface Mt., J1, Mt. Skylight, 4900 ft., J1, Mt. Colden, 4500 ft., J1, Mt. Marcy, 5300 ft., J1 (Not); Batavia, Je, *Lg*.
- 331 **D. globulosus** Say. Common everywhere in spring (Nic); Whiteface Mt., J1, Mt. Marcy, Oct, *Lg*; Keene Val., Aug (Not); St. Lawrence Co, *Houghton*; Sodus Pt., May (Not); Monroe Co (M&W); Olcott, Oct (Dt); Buffalo (Z&R); Ithaca, Jan, May, J1–Aug, *div.* (Vdyk); Canisteo, Je (Not); McLean Bogs, Aug, *Dt* (Vdyk); Nichols, May (Not); Windsor, Je (Not); W. Hebron, Je (Lg); West Pt., *Robn*; Ft. Montgomery, May (Not); Peekskill (Vdyk); Bronxville, Mar (Woodr); NYC vic., Je, *Ds* (Schaupp); **LI**: Rockaway Beach, May–Je, *Ds*, *Shoe* (Not); Far Rockaway, Aug (Woodr); Farmingdale, Mar, Canarsie, May (Not); Wyandanch, May, *Ds*.
- 333 **D. terminatus** Lec. Monroe Co (M&W); Hudson Falls, Aug (Vdyk); Peekskill (Vdyk).
- 334 **D. haemorrhoidalis** Dej. Sacandaga, Aug (H); Sylvan Beach, Je (Not); Pike, Aug (H); Peekskill, *Sherm*.
- 336 **D. affinis** Fall. Peekskill, *Sherm*.
- 339 **D. sphaericollis** Say. Crown Pt., Aug (Not); St. Lawrence Co, *Houghton*; Sylvan Beach, Je, Waterville, Je (Not); Monroe Co (M&W); Buffalo (Z&R); E. Aurora (Dnd); Westfield, May, Canisteo, Je (Not); Ithaca, May, J1, *div.* (Vdyk); Inlet Val., *Dt* (Vdyk); Ft. Hunter, May–Je, Schoharie, Je (Not); Washington Co (Vdyk); Wingdale (Vdyk); NYC, May–Sep (Schaupp); **SI**, Je, *Lg*; **LI**: Coney I. (Schaupp); Rockaway (L&B); Long Beach (L&B).
- 340 **D. edentulus** Putz. Ithaca, J1, *Hamilton* (Vdyk).
- **D. aureolus** Not. Schoharie, Je (Not).
- 342 **D. erythrocerus** Lec. Canisteo, Je (Not); W. Hebron, Je (Lg); NYC, May–Sep (Schaupp); **SI**, J1, *Ds*; **LI**: Coney I., Rockaway, and Long Beach (L&B); Rockaway Beach, May, *Ds* (Not).
- 345 **D. sellatus** Lec. **LI**: Rockaway Beach, J1, *Shoe*, *Ds* (Vdyk); Coney I., Je–Sep, *Julich* (Schaupp); Long Beach (L&B).
- 346 **D. pallipennis** Say. Sylvan Beach, Je (Not); **LI**: Coney I., *Schaupp*, Long Beach (L&B).
- 349 **D. filiformis** Lec. **LI**: Coney I., Je–Sep, *Julich* (Lec&Lg); Rockaway Beach, May–Je, *div.* (Not).
- 352 **D. pumilus** Dej. **LI**: Coney I., Rockaway Beach (L&B).
- 355 **D. hispidus** Lec. Rochester (M&W).
- 356 **D. setosus** Lec. Batavia, Je, *Lg*; Oakfield, Je (Not); Red House, Je, Nichols, May (Not); **LI**: Brooklyn, May, *Ds* (Not).

## CLIVINA Latreille

- 358 **C. dentipes** Dej. **LI**: Orient Pt., Je; Rockaway.
- 359 **C. impressifrons** Lec. Sacandaga R., Aug; Rochester (M&W); Olcott, Je–J1 (Dt); Batavia, Aug, *Kngt*; E. Aurora (Dnd); Buffalo (Z&R); Croton, Je, *Brownell*; Windsor, Je (Not); Durlandville, Ap, *SWFrost* (Vdyk); **LI**: Rockaway (Vdyk); Babylon; Rockaway Beach, May, *J*, *Shoe* (Woodr); Orient, *Lath* (NYS).

- 366 **C. rufa** Lec. Ausable Pt., Sep (Not); Monroe Co (M&W); **SI**, May, *Ds*.  
 369 **C. americana** Dej. Ausable Pt., Sep, Crown Pt., Aug (Not); Hessian L. (Vdyk); Lowville, Je, Waterville, Je, Oakfield, Je, Westfield, May (Not); Olcott, May, Jl (Dt); Ithaca, May, Sep, *Dt* (Vdyk); McLean Bogs, Jl-Aug, *Hamilton*, *Dt* (Vdyk); Ft. Hunter, May (Not); W. Hebron, Je (Lg); Tivoli, May, Ft. Montgomery, May (Not); West Pt. (Robn); Peekskill; Bronx Pk. (Not); NYC vic. (Schaupp); **SI**, May, *Lg*; **LI**: *Lg*; Brooklyn, Mar, Je, *Shoe*.  
 372 **C. striatopunctata** Dej. Fishkill, May, *Brownell* (Lg); Orangeburg, May (Nic); **SI**, Ap, *Lg*; **LI**: Brooklyn, Ap-May, *Shoe*; Rosedale, Je 3 (Nic).  
 375 **C. bipustulata** Fab. Monroe Co (M&W); NYC, *Bt*; **SI**, May-Jl, *L&D* (L&B); **LI**: Rockaway Beach, Ap-Je, *Shoe* (Woodr).  
 370 ?**C. morula** Lec. **LI** (Lec, Horn).

## SCHIZOGENIUS Putzeys

- 382 **S. planulatus** Lec. E. Aurora (Dnd); Canisteo, Je (Not); Taughannock Gorge, May, Aug, *Dt* (Vdyk); **LI**: Coney I. (Schaupp).  
 383 **S. lineolatus** Say. Mooers, Sep, Jay, Aug (Not); Newport, May, *Yg*; Lowville, Je (Not); Monroe Co (M&W); Sodus Pt., Je (Not); Buffalo (Z&R); Portage, *Yg* (Lint); Westfield, May (Not); Canadice, Je, Canisteo, Je (Not); Inlet Val., May, Jl, Taughannock Gorge, May, Aug, *Hamilton*, *Dt* (Vdyk); Ithaca, Je, Aug, *Hamilton* (Vdyk); Norton's, Cayuga L., May, *SmHH* (Vdyk); Nichols, May, Windsor, Je, Ft. Hunter, May-Je, Schoharie, Je (Not); Albany, *Lint*; W. Hebron, Je (Lg); Esopus (Vdyk); West Pt. (Robn); Stony Pt., Ramapo, Je, *Ds*.  
 385 **S. ferrugineus** Putz. Monroe Co (M&W); Buffalo (Z&R); **SI**, May (Bischoff); **LI**: Rock Beach (Vdyk).  
 386 **S. amphibius** Hald. Newport, May, *Yg*; Lowville, Je (Not); Keene Hgts., Jl (Not); Sodus Pt., Je (Not); E. Aurora (Dnd); Westfield, May (Not); Canadice, Je (Not); Canisteo, Je (Not); Ithaca, May, Jl, *Hamilton* (Vdyk); Taughannock Gorge, May, *Dt* (Vdyk); Inlet Val., May, Jl, *Dt*, *SmHH* (Vdyk); Norton's, May, *SmHH* (Vdyk); Croton, May, Je, *Brownell*; Nichols, May (Not); Windsor, Je (Not); Ft. Hunter, Je (Not); Albany, *Lint*; Esopus (Vdyk); West Pt. (Robn); Stony Pt., Je, *Ds*; Ft. Montgomery, May (Not); Peekskill, *Sherm* (Vdyk).

## ARDISTOMIS Putzeys

- 395 **A. viridis** Say. Buffalo (Z&R); Esopus (Vdyk); Peekskill, Je, *Sherm* (Vdyk); **LI**: Rockaway, Je (Schaupp).

## SUBFAMILY HARPALINAE

## PANAGAEUS Latreille

- 398 **P. crucigerus** Say. **LI**: Cypress Hill Cemetery, May-Je, under stone (Schaupp); Amityville, May (NYS); Rockaway Beach, Brooklyn, May, *Shoe*, at beach, in wash-up and under stone (Sf).  
 399 **P. fasciatus** Say. Albany, May, *Yg* (NYS); **LI**: Cypress Hill Cemetery, May-Je, under stones (Schaupp); Rockaway Beach, Je, *Ds*.

## NOMIUS Laporte

- 404 **N. pygmaeus** Dej. Keene Val., Je (Not); Saranac, Aug (NYS); St. Lawrence Co, *Houghton*; Ithaca, Je, Sep, at light (Vdyk).

## BEMBIDION Latreille

- 731 **B. fraternum** Lec. Callicoon (Lg); **LI**: Newtown, Je (Lg).
- 408 **B. inaequale** Say. Adirondack (Hayw); Keene Val., Je (Not); Crown Pt., Aug (Not); Mountain View, Sep (Not); Sodus Pt., May, Je (Not); Sylvan Beach, Je (Not); Waterville, Je (Not); Monroe Co (M&W); Buffalo (Hayw); Lancaster, Jl (Lg); E. Aurora (Dnd); Westfield, May (Not); Canisteo, Je (Not); Ithaca, Jl (Dt); Windsor, Je (Not); Ft. Hunter, Je (Not); Schoharie, Je (Not); Orangeburg, Ap (Not); Bronx Pk., Ap; West Farms.
- 411 **B. littorale** Oliv. Saranac Inn, Je (NYS); Buffalo (Z&R).
- 412 **B. lacustre** Lec. Ausable L., Je, Jl (Not); Keene Val., Je (Not); Indian Pass, Jl (Not); "NY" (ANSP).
- 416 **B. carinula** Chd. Adirondacks (Hayw); Crown Pt., Aug (Not); Ausable L., Jl (Not); Hamilton Co; Monroe Co, rare (M&W); Buffalo and vic. (Z&R); Caldwell, L. George, Jl, *Zab* (Not).
- 419 **B. punctatostriatum** Say. Inlet of Upper Ausable L., Jl, on sand bank, (Not); Lower Ausable L., Je (Not); Keene Val., Je (Not); Indian Pass, Jl (Not); Newport, Sep (NYS); Sylvan Beach, Je (Not); Sodus Pt., May, Je (Not); Monroe Co (M&W); Buffalo (Z&R); E. Aurora (Dnd); Canisteo, Je (Not); Ithaca, May, Jl (Morr, Dt); Nichols, May (Not); Windsor, Je (Not); Albany, Je (NYS); Ft. Hunter, May, Je (Not).
- 426 **B. confusum** Hayw. (*coxendix* Say). Sylvan Beach, Je, very abundant
- 429 on beach, L. Oneida (Not); Pike, Aug (NYS).
- 432 **B. americanum** Dej. Sodus Pt., Je (Not); Monroe Co, rare (M&W); Red House, Je (Not); Whitehall, Oct (Not); Van Cort. Pk., *Bradford*; Bronx Pk.; **SI**: May-Je, Aug (Nic); Clove Val., Sep, on mud flat, flying when approached, *Ds*; **LI**: Jamaica (Nic); Far Rockaway, Je (Woodr); Flushing, Je, *Bell* (Not); Calverton, Sep, *Ds*.
- 438 **B. nitidum** Kby. Keene Val., Je-Jl (Not); summit of Mt. Whiteface, Jl, *Ds* (Not); N. Elba, Oct (Lg); Sodus Pt., Je (Not); Monroe Co (M&W); Buffalo (Z&R).
- 440 **B. laevigatum** Say. Buffalo (Dnd); Olcott, Sep (Dt).
- **B. basicorne** Not. Keene Hgts., Je-Jl (Not); Springwater, Je (Not); Westfield, May (Not); in "the Gulf," Chautauqua Co; Windsor, May (Not); Rensselaerville, May (Not).
- 476 **B. rusticum** Csy. Catskills, *SmHH* (Cy).
- 486 **B. simplex** Hayw. Ausable L., Keene Val., Je-Jl (Not); John's Br., Aug (Not); Crystal Br., Ausable L., Je-Aug (Not); Indian Pass, Jl (Not); Keene Hgts., Je-Jl (Not); E. Marcy Br., 3200 ft., Jl (Not); Feldspar Br., Mt. Marcy, 4000 ft., Jl (Not); Cliff Mt., 3500 ft., Jl (Not); Lowville, Je (Not); Monroe Co (M&W); Springwater, Je (Not); Westfield, May (Not); Canisteo, Je (Not); Ithaca, Aug, *Dt* (Vdyk); Windsor, May, Je (Not); Ft. Hunter, Je (Not); Hebron, Je (Lg); Catskills, *Nic* (Not); **LI**: Jamaica, *Nic* (Not).

- **B. occultator** Not. Mt. Redfield, J1 (Not).
- **B. notmani** Csy. NY, type locality.
- **B. essexense** Csy. NY, type locality.
- **B. keeneanum** Csy. NY, type locality.
- 487 **B. planiusculum** Mann. Keene Val., J1 (Not); Indian Pass, J1 (Not); Keene Hgts., J1 (Not); Keene, J1 (Not); Waterville, Je (Not); Westfield, May (Not); Windsor, Je (Not); Canisteo, Je (Not); Buttermilk Glen, Ithaca, J1 (Lg); Windsor, Je (Not); Schoharie, Je (Not).
- 489 **B. complanulum** Mann. Ausable L., J1 (Not); Indian Pass, J1 (Not); Keene Val., 1500 ft., J1-Aug (Not); Keene Hgts., J1 (Not); Waterville, Je (Not); Westfield, May (Not); Windsor, Je (Not).
- 512 **B. nigrum** Say. Indian Pass, J1 (Not); Ausable Forks, Aug (Not); Upper Jay, Aug (Not); Jay, Aug (Not); Ausable L., J1 (Not); Keene Hgts., 1500 ft., J1 (Not); Keene, J1 (Not); Mooers, Sep (Not); Keene Val., Je (Not); Lowville, Je (Not); Saranac L., Sep, *Shoe*, under pebbles on beach (Sf); Waterville, Je (Not); Sodus Pt., Je (Not); Monroe Co (M&W); Erie Co (Dnd); Canadice, Je (Not); Westfield, May (Not); Waccabuc, J1 (Not); Canisteo, Je (Not); Tarbel, Je, *Ds* (Not); Nichols, May (Not); Windsor, Je (Not); Ft. Hunter, May-Je (Not); Bolton, Aug (Lg); W. Hebron, Je (Lg); Whitehall, Oct (Not); Catskills, *Nic* (Not); Ulster Co, Sep, *Nic* (Lg); Ft. Montgomery, May (Not); Bronxville, May (Woodr); NYC and vic.; **SI**, J1, Sep; **LI**: Jamaica, *Nic* (Not).
- 521 **B. concolor** Kby. Buffalo, vic. (Z&R); Ausable Pt., abundant, Whitehall, Crown Pt., Aug-Oct (Not). Abundant on beach, L. Champlain.
- 522 **B. consessor** Csy. Bluff Pt., L. Champlain (Csy).
- 533 **B. planum** Hald. Keene Hgts., 1500 ft., Crown Pt., Keene, Upper Jay, Jay, Mooers, Cape Vincent, Lowville, Waterville, Sodus Pt., Je-Sep (Not); Monroe Co (M&W); Buffalo (L&B); E. Aurora (Dnd); Canadice, Westfield, Canisteo, May, Je (Not); Ithaca, May, *Dt* (Morr, Vdyk); Taughannock, Nichols, Windsor, Ft. Hunter, Whitehall, Catskills, May-Oct (Not); NYC (Hald).
- 536 **B. fugax** Lec. Monroe Co, rare (M&W); Buffalo (Z&R); Canisteo, Nichols, May, Je (Not); Taughannock Gorge, J1 (Lg); Ft. Hunter, May-J1, *Not* (Lg); Esopus, Aug, *Sherm, Jr.* (Lg); Suffern; Ramapo, Je; West Pt. (Robn).
- 540 **B. transversale** Dej. Newport, Albany, May (Say); Inwood, May, Oct.
- 560 **B. nitens** Lec. Mt. Marcy, 5000 ft., Wallface, 3500 ft., Keene Val., 1000 ft., summit of Mt. Dix, Mt. Marcy, 5300 ft., Mt. Haystack, 4900 ft., Mt. Colden, 4500 ft., Mt. Whiteface, top, Ap-Oct (Not).
- 567 **B. militare** Csy. **LI**: Willetts Pt. (Csy).
- 572 **B. picipes** Kby. Port Kent, in small brook near L. Champlain, Sep (Not); Newport, Je, *Yg* (NYS); St. Lawrence Co, *Houghton*; Chaumont, Lowville, Utica, Waterville, Je-Sep (Not); Monroe Co (M&W); Olcott, Ap (Dt); Buffalo (Z&R); Montour Falls, Ap (H); Pike, J1, *Yg* (NYS); Canadice, Springwater, Westfield, Canisteo, Windsor, Schoharie, Whitehall, May-Oct (Not); Ithaca, Spencer, *Dt* (Vdyk); Poughkeepsie, Je, *Yg* (NYS); Peekskill, *Sherm* (L&B); Tivoli, May (Not); Newport, Je, *Yg* (NYS); **LI**: Coney I., Rockaway, Je-J1, *Lg* (Schaupp, L&B).



- 573 **B. scopulinum** Kby. John's Br., Crystal Br., Upper Ausable L., Ausable Lakes, 2000 ft., Ausable Chasm, Wallface Mt., 3000 ft., Keene Hgts., Cliff Mt., 3000 ft., Shanty Br., shore of L. Ontario, near Pulaski, Lowville, on Roaring Br., Je-Sep (Not); Johnstown, Gloversville, Ap (NYS); Sodus Pt., Westfield, May, Je (Not); Olcott, Jl, Sep (Dt).
- 577 **B. postremum** Say. Monroe Co (M&W); Springville, Marilla (Dnd); Pike (NYS); Canisteo, Windsor, Schoharie, Je (Not).
- 582 **B. canadense** Hayw. On beach, L. Erie, Sodus Pt., Westfield, Ft. Hunter, Ft. Montgomery; very rare, May-Je (Not).
- 588 **B. tetracolum** Say. Ausable Chasm, Ausable Lakes, Keene Hgts., Mt. Redfield, 3000 ft., Jl-Sep (Not); St. Lawrence Co, *Houghton*; Gloversville, May, Aug (NYS); Monroe Co, Sodus Pt., May-Je (Not); Olcott, Mar, Jl, Sep (Dt); Buffalo (Z&R); Westfield, Canisteo, Nichols, May-Je (Not); Ithaca, May, *Dt* (Morr, Vdyk); Westchester, Jl (Lg); Yonkers; Bronxville, Mar-May (Woodr); West Farms; NYC (Dej); **SI**, Feb-Nov (Lg); **LI**: Canarsie, Ap (Not); Brooklyn, Mar-Jl, *Shoe* (Sf); Flatbush, May (Not); Manitou Beach, Je, *Zab* (Not); Jamaica, Rockaway Beach, May (Nic); Ft. Hamilton, Ap (Woodr).
- 588b **B. tetracolum** var. **nactum** Csy. Lower Hudson Val. (Csy).
- 591 **B. honestum** Say. Elizabethtown, Je (NYS); Ausable Forks, Upper Jay, Jay, Keene, Mooers, Wilmington, Stony Pt., Canisteo, Nichols, Whitehall, Ft. Hunter, Waterville, Windsor, Tarbel, Ft. Montgomery, May-Aug (Not); Ithaca, Ap, Jl, *Dt* (Vdyk); W. Hebron, Je-Jl (Lg); Taughannock Gorge, Je-Jl (Lg); Howasacra, Je (NYS).
- 592 **B. chalcum** Dej. Ausable Pt., Crown Pt., Upper Jay, Jay, Ausable Lakes, Keene Hgts., Keene, Mooers, Lowville, Waterville, Westfield, Nichols, Schoharie, Ft. Hunter, Whitehall, Ft. Montgomery, May-Sep (Not); Monroe Co, rare (M&W); Buffalo (Z&R); Ithaca, Mar, Aug, *Dt* (Vdyk); West Pt. (Robn).
- 600 **B. grandiceps** Hayw. Lowville, Cape Vincent, L. Ontario, Westfield, Canisteo, Nichols, Windsor, Ft. Hunter, Whitehall, May-Oct (Not); Ithaca, Aug, *Dt* (Vdyk).
- **B. rolandi** Fall. NY, type locality (Lg).
- 604 **B. semistriatum** Hald. Waterville, Windsor, Ft. Montgomery, May (Not); McLean Bogs, May (Dt); Ulster Co, *Nic* (Not); **LI**: Jamaica, *Nic* (Not).
- 612 **B. nigripes** Kby. Ausable Lakes, 2000 ft., Jl (Not).
- 648 **B. posticum** Hald. Wilmington, Mt. Wallface, Lowville, Ausable Pt., Ausable Lakes, Ausable Forks, Chaumont, Mountain View, Norwood, Cape Vincent, Crown Pt., Ausable Chasm, Keene Val., Mt. Marcy, Waterville, Mt. Skylight, Upper Jay, Jay, Keene Hgts., Keene, Mt. Redfield, Mooers, Sodus Pt., Mayville, Westfield, Red House, Oakfield, Canadice, Canisteo, Windsor, Nichols, Schoharie, Whitehall, Pine I., Tivoli, May-Oct (Not); Ithaca, Jl, *Dt* (Vdyk); Callicoon, Jl (Lg); **LI**: Rosedale, Canarsie, Ap-May (Not); Coney I., Rockaway, Je, Jl (Schaupp).
- 651 **B. patrule** Dej. Crown Pt., Ausable Forks, Upper Jay, Jay, Waterville, Lowville, Sylvan Beach, N. Brookfield, Sodus Pt., Mayville, Red House, Westfield, Canisteo, Nichols, Windsor, Schoharie, Ft. Hunter, Orangeburg, May-Aug (Not); Buffalo (Z&R); Batavia, *Ds*; E. Aurora (Dnd); White Plains, *Sq* (Frost).



- 655 **B. intermedium** Kby. Oneida L., Aug (Drk); Olcott, May-Jl (Dt); Buffalo (L&B); E. Aurora (Dnd); Ithaca, Jl, McLean, Aug, *Dt* (Vdyk); **LI**: Coney I., Rockaway, Je-Jl (Schaupp).
- 657 **B. marcidum** Csy. Lower Hudson Val. (Csy).
- 659 **B. versutum** Lec. Wallface Mt., Indian Pass, 2200 ft., Waterville, Nichols, Ft. Hunter, May-Jl (Not).
- 660 **B. variegatum** Say. Syracuse, Ap-May (H); Monroe Co (M&W); Red House, on Allegheny R., Nichols, Windsor, Orangeburg, May-Je (Not); Ithaca, Jl, *Dt* (Vdyk); West Pt. (Robn); **SI**, Mar-Sep (L&D).
- 679 **B. arcuatum** Lec. Indian Pass, 2200 ft., Wallface Mt., Waterville, Jl (Not); Monroe Co (M&W).
- 680 **B. graciliforme** Hayw. Axton, Je, *M&H*; Adirondacks, *Houghton*; Ausable Pt., Chaumont, Lowville, Waterville, Sodus Pt., Oakfield, Canadice, Whitehall, Orangeburg (Not); E. Aurora, Springville (Dnd); Olcott, Ap-Je (Dt); Ithaca, Feb (Lg, Dt); Tivoli; Mosholu (Not); **SI**, Je-Sep (Not); **LI**: Ap, *Hamilton* (Woodr).
- **B. lengi** Not. NY, type locality (Lg).
- 686 **B. cordatum** Lec. Monroe Co, rare (M&W); **SI**, *Nic* (Not).
- 694 **B. contractum** Say. Westchester, Mar (Lg); Canarsie, May (Not); West Farms; Van Cort. Pk., *Nic*; **SI**: Oakwood, in salt meadow, Sep, *Ds*; Watchogue (Lg); **LI**: Rockaway Beach, May-Sep, *Shoe* (Sf); Rockaway, Babylon, Je, *Bradford*; Bellport, Je-Aug, *Nic*; Jamaica, May, *Nic*; Far Rockaway, Ap-May (Woodr); Nissequogue R., Ap (Not); Center I., May, *Ds* (Not).
- **B. proximum** Not. NY, type locality.
- 695 **B. constrictum** Lec. **SI**: Oakwood, Mar, *Nic*; **LI**: Coney I., Rockaway, Je-Jl (Schaupp); Rockaway Beach, May, *Shoe*, *Nic* (Sf); Bellport, Jl (Nic); Wading R., May, *Nic*; Far Rockaway, May, Jamaica Bay, Ap (Woodr).
- 705 **B. affine** Say. Canadice, Oakfield, Westfield, Red House, Tivoli, Canisteo, May-Je (Not); Oneida L., Aug (Drk); Catskills, Ulster Co, *Nic*; Orange Co, Ap, *Faure* (Morr); Bronxville (Woodr); Mosholu; Van Cort. Pk.; **SI**: *Ds* (Not): seashore and south shore; **LI**: Brooklyn, May, Oct, *Shoe* (Sf); Jamaica, *Nic*; Rockaway, May (Woodr); Rosedale, Wyandanch, Ap-Oct (Not).
- 713 **B. decipiens** Dej. Wallface Mt.; Indian Pass; Ausable Pt.; Mountain View; Norwood; Cape Vincent; Keene Val.; Ausable Forks; Mt. Marcy, 5000 ft.; Moss Pond; Upper Jay; Keene; Chapel Pond; Mt. Redfield; Mt. Colden; Mt. Skylight; Mooers; Windsor; Schoharie; Lowville; Waterville; Sylvan Beach; Sodus Pt.; Oakfield; Westfield; Mayville; Nichols; Ft. Hunter; Whitehall; Tivoli; Orangeburg; May-Sep; (all Not).
- 714 **B. rotundiceps** Csy. **LI**, *Shoe* (Csy).
- 723 **B. versicolor** Lec. L. Tear, Ausable Pt., Mountain View, Crown Pt., Norwood, Cape Vincent, Keene Val., Ausable Forks, Mt. Marcy, 5000 ft., Moss Pond, Keene Hgts., Upper Jay, Jay, Chapel Pond, Ausable Lakes, Mt. Redfield, Mt. Colden, Mt. Skylight, Cliff Mt., Mooers, Mt. Whiteface, Lowville, Waterville, Sodus Pt., Oakfield, Red House, Westfield, Windsor, Tarbel, Ft. Hunter, Stony Pt., Whitehall, Rensselaerville,

- May-Sep (Not); Oneida L., May-Aug (H); western NY, common on mud flats (Dnd); Olcott, Ap-Jl, Sep, Ithaca, May, Aug, McLean Bogs, May, Aug (Dt); Durlandville, May, *Frost SW* (Dt); White Plains, Jl, *Sq* (Frost); **SI**, south shore, May-Sep (Not).
- 725 **B. muscicola** Hayw. Cape Vincent, Waterville, abundant in cedar swamp, Je-Sep (Not); Johnstown, Gloversville, Mar-Dec (NYS); Montour Falls, Je (H); Olcott, Ap, Jl (Dt); Ithaca, Nov, *Dt* (Vdyk).
- **B. semicinctum** Not. Mooers, Orangeburg, Ap-Sep (Not).
- **B. quadratulum** Not. Mt. Redfield, 4200 ft., Jl (Not). (*B. proximum* is probably synonymous.)
- 730 **B. oberthuri** Hayw. Crown Pt., Mountain View, Upper Jay, Windsor, Schoharie, Sylvan Beach, Red House, Canisteo, Nichols, Ft. Hunter, Whitehall, May-Oct (Not); Marilla (Dnd).
- 737 **B. quadrimaculatum** L. Castile, *Brad* (Flet); generally distributed and common throughout the State.
- 744 **B. pedicellatum** Lec. West Pt. (Robn); Bronx Pk., Ap, *Nic* (Not); Bronxville, Ap (Woodr); **SI**: Bulls Head, Ap (Woodr).
- 747 **B. mutatum** G. & H. Mt. Whiteface, Aug, *Dt* (Vdyk); Keene Val., Moss Pond, Chapel Pond, Mt. Colden, Mt. Marcy, 5300 ft., May-Jl (Not); St. Lawrence Co, *Houghton*.
- 754 **B. sulcatum** Lec. Keene Val., Westfield, May-Jl (Not); Monroe Co (M&W); McLean Bogs, May (Dt).
- 759 **B. frontale** Lec. Ausable Chasm, Lowville, Waterville, Utica, Oakfield, Westfield, Red House, Nichols, Whitehall, Sodus Pt., Tivoli, Orangeburg, Clove Val., May-Oct (Not); Batavia, Je (Lg); Monroe Co (M&W); Olcott, May, Jl (Dt); Buffalo (Z&R); Ithaca, Nov, *Dt* (Vdyk); Albany, Ap; West Pt., Je, *Ds* (Not); Mosholu; Van Cort. Pk., May, Oct, *Nic*; **LI**: Brooklyn, May, *Shoe* (Si); Greenport, Aug, *Ds* (Not).
- 772 **B. cautum** Lec. Summit of Mt. Skylight, 4900 ft., Jl (Not); Genesee Co, Je (Lg).
- 776 **B. anguliferum** Lec. Keene Val., Cape Vincent, Mt. Skylight, Waterville, very abundant under leaves in cedar swamp, McLean, May-Sep (Not); Westport, Aug; West Pt. (Robn); **LI**: Flatbush, Jl, *Zab* (Not).
- B. kuprianovi** Mann. Buffalo (Z&R). The type locality is doubtfully N. Am. (Lg).

#### AMERIZUS Chaudoir

- 778 **A. oblongulus** Mann. Mt. Whiteface, Aug, *Dt* (Vdyk); Mt. Hopkins, Mt. Skylight, Mt. Wallface, Mt. Marcy, Norwood, very unusual, taken under stones, shore Raquette R., Mt. Redfield, Mt. Whiteface, May-Sep (Not); Westfield (Not); N. Elba, Oct (Lg); Monroe Co, rare (M&W); NYC, *Palm* (L&B).

#### PERICOMPSUS LeConte

- 792 **P. ephippiatus** Say. Monroe Co, not common (M&W); Nichols, abundant on Susquehanna R., May (Not); near Hudson R., *Sherm* (L&R); Hudson Falls, *Sherm, Jr* (Lg); **SI** (L&D).

## TACHYURA Motschulsky

- 805 *T. incurva* Say. Keene Val., Norwood, Ausable Forks, Upper Jay, Keene, Ausable Lakes, Mt. Redfield, Mt. Colden, Mt. Skylight, Cliff Mt., Mooers, Sodus Pt., Westfield, Eggleston's Glen, L. Keuka, Waterville, Windsor, Schoharie, Tivoli, Ft. Hunter, W. Hebron, Van Cort. Pk., May-Sep (Not); Newport, Gloversville, Ap-Nov (NYS); Olcott, Feb-Oct (Dt); Buffalo (Z&R); Batavia, Je; E. Aurora (Dnd); Taughannock (Lg, Vdyk); Ithaca, May-Jl (div.); McLean Bogs, Jl-Aug, Caroline, Ap, Inlet Val., May-Jl, Coy Glen, May, Dt (Vdyk); Catskills, *Nic*; West Pt. (Robn); **SI**: seashore, May-Sep, Clove Val., Mar (Not); **LI**: Flatbush, Ap (Not); Jamaica, Brooklyn, *Nic* (Not); Amagansett, Sep, *Ds* (Not); E. New York, May (Not); Wyandanch, Ap, *Ds* (Not).
- 811 *T. granaria* Dej. Keene Val., Westfield, May-Aug, Keene Hgts., Moss Pond, Mt. Colden, Mt. Skylight, Mt. Marcy, Je-Aug (Not); Monroe Co (M&W); Catskill, Ap, *Ang* (Not); Catskills, *Nic* (Not); Westchester, Feb (Lg); Bronx, NYC; Bronxville, Mar-Apr (Woodr); **SI**, Mar (Lg); **LI**: Brooklyn, Ap-May, *Shoe*; Jamaica, *Nic* (Not).
- 813 *T. laetifica* Csy. NYC, *Julich* (Csy).
- 819 *T. xanthopus* Dej. Esopus, Peekskill, Ap (Vdyk); Tivoli, Van Cort. Pk., Mar (Not); **SI**, Jl (Lg).
- 820 *T. levipes* Csy. **LI**: Bellport, Je, *Nic* (Not).
- 825 *T. capax* Lec. West Pt. (Robn).
- 829 *T. tripunctata* Say. Waterville, Sodus Pt., Westfield, Red House, Ft. Hunter, Schoharie, Whitehall, Windsor, Tivoli, Ft. Montgomery, May-Oct (Not); Taughannock Gorge, May-Jl, Dt; Ithaca, May (Vdyk); Tarrytown, May, *Bradford*; **SI**, Nov (Lg).
- 830 *T. vivax* Lec. Ausable Forks, Jay, Waterville, Westfield, Nichols, Schoharie, Whitehall, Tivoli, May-Oct (Not); Monroe Co (M&W); Buffalo (Z&R); E. Aurora (Dnd); Ithaca, Je, *Hamilton* (Vdyk); Taughannock Gorge, May-Aug, Dt, *Hamilton* (Vdyk); Inlet Val., May, Jl, McLean Bogs, Aug, Dt (Vdyk); Coy Glen, May (Morr).
- 832 *T. serva* Csy. Bluff Pt. (Csy).
- 834 *T. ferrugineus* Dej. Peekskill, Mar (Vdyk); Greenwood L., May (Not); Riverdale, Je (Woodr); **SI**, Ap, *Shoe*.
- 835 *T. frontalis* Hayw. Canisteo, Je (Not); Peekskill, Je (Vdyk); **LI**: Jamaica (Lg); Rockaway Beach, May, *Nic* (Lg).

## TACHYS Stephens

- 841 *T. cuneatus* Csy. NYC (Csy).
- 849 *T. proximus* Say. Monroe Co (M&W); Buffalo (Z&R); Olcott, Mar (Dt); Oakfield, Westfield, May-Je (Not); Ithaca, May-Je, McLean Bogs, Jl-Aug (Vdyk); Sandy Hill, Aug (Vdyk); Peekskill, May, Dt (Vdyk); **SI**: seashore, Je, *Ds* (Not).
- *T. rectangulus* Not. Sodus Pt., Je, Tivoli, May, Je (Not).
- 851 *T. scitulus* Lec. Manlius, May (Vdyk); Monroe Co (M&W); Buffalo (Z&R); Westfield, Canisteo, Windsor, Ft. Hunter, Schoharie, May-Je (Not); Inlet Val., Jl, Sep, Dt; Peekskill, Dt (Vdyk); Catskill, Ap, *Ang* (Not); West Pt. (Robn); Bronx Pk.; **SI**, May-Je (Lg); **LI**: Brooklyn, Ap, May, *Shoe* (Sf).
- 854 *T. temporalis* Csy. NYC (Csy).

- 856 **T. obliquus** Csy. **LI**: Willetts Pt. (Csy).  
 857 **T. coruscus** Lec. Waterville, Sylvan Beach, Sodus Pt., Windsor, Schoharie, May-Je (Not); Peekskill, May (Vdyk); **SI**, Ap, *Shoe* (Sf); **LI**: Canarsie, Rockaway Beach, E. New York, May (Not).  
**T. reflexicollis** Mots. Vic. NYC (Motschulsky).  
 883 **T. laevus** Say. Manlius, Ap, *Comst* (Vdyk); Newport, Ap (NYS); Ausable Chasm, Westfield, Ft. Hunter, Windsor, Schoharie, Whitehall, Je-Oct (Not); Monroe Co (M&W); Olcott, Ap (Dt); Buffalo (Z&R); McLean Bogs, Aug, *Dt* (Vdyk); Ithaca, Ap (div.); Six Mile Cr., Ap (Morr); Peekskill (Vdyk); Van Cort. Pk., *Nic* (Not); **SI**: *Shoe* (Sf); Arrochar, Je-Oct (Not); **LI**: Brooklyn, Bronx Pk., Ap, *Shoe* (Sf).

## TACHYTA Kirby

- 890 **T. nana** Gyll. Cranberry L., J1 (Hatch); Cortland Co (Dnd).  
 892 **T. inornata** Say. Axton, *M&H*; St. Lawrence Co, *Houghton*; N. Elba; Keene Val., Wallface, Mt. Skylight, Red House, Westfield, W. Hebron, Sloatsburg, Catskills, Big Ind. Val., Van Cort. Pk., Feb-J1 (Not); Monroe Co (M&W); Olcott, Ap (Dt); Syracuse, Ap (H); Buffalo (Z&R); Pike, Ap (NYS); McLean, Ap (Morr); Ithaca, Aug, *Hamilton* (Vdyk); Fall Cr., Renwick, Freeville, Ap-Je, *Dt* (Vdyk); Shokan (Lg); Karner, Mar (NYS); Peekskill (Vdyk); **SI**: Clove Val., Feb-J1 (Not); **LI**: Flatbush, Sep-Oct, *Zab* (Not); Jamaica, Bellport, J1-Aug, *Nic* (Not); E. Hampton, J1 (Woodr); Brooklyn, May, *Shoe* (Sf).  
 895 **T. debilicollis** Csy. Ausable Pt.; Mountain View; Keene Val.; Red House; Westfield; Sloatsburg; **LI**: Yaphank; Ap-Sep; (all Not).

## TACHYMENIS Motschulsky

- 898 **T. flavicauda** Say. Keene Val., Ausable Pt., Sodus Pt., Oakfield, Je-Sep (Not); Olcott, Aug, Oct (Dt); Windom, Oct, *Knapp* (Vdyk); Westfield; Red House, Schoharie, Ft. Hunter, Je (Not); Syracuse, Ap-May (H); Monroe Co (M&W); Buffalo (Z&R); Ithaca, Ap, Aug, *M&H* (Vdyk); McLean, Ap (Morr); Renwick, Mar-Apr, *Dt* (Vdyk); Croton L., Ap (Not); Peekskill (Vdyk); Nassau, May (NYS); Mosholu, Nov, *Ang* (Not); Tarrytown; Van Cort. Pk., Oct, *Nic* (Not); **SI**: Clove Val., May (Not); Arrochar, Ap (Woodr); **LI**: Brooklyn, Ap-May, *Shoe*; Flatbush, Ap-Oct, *Zab*; Jamaica, Ap-May, Bellport, Aug, *Nic*; Central Pk., Ap (Woodr); Yaphank, May (Not); Hauppauge, Ap (Not); Baldwin, Amagansett, Sep, *Ds* (Not); Orient, *Lath* (NYS). Common under bark of dead trees (L&D).

## PATROBUS Dejean

- 901 **P. longicornis** Dej. Keene Val., Crown Pt., Jay, Mooers, Long L., Norwood, Waterville, Conesus, Conesus L., Westfield, Schoharie, May-Sep (Not); St. Lawrence Co, *Houghton*; Newport, May, Holiday (NYS); Monroe Co (M&W); Olcott, May, J1, Oct (Dt); Buffalo (Z&R); western NY, common in damp places (Dnd); Pike (NYS); Batavia, Je, *Ds*; Ringwood, Inlet Val., Je, J1, *Dt* (Vdyk); Ithaca, Ap-Sep, *Dt*, *Hamilton & Yuasa* (Vdyk); Windom, Oct, *Knapp* (Vdyk); Hebron (Lg); Catskills, *Nic* (Not); White Plains, Aug-Sep, *Sq* (SfNYS); Van Cort. Pk., *Nic* (Not); Bronx (Woodr); Bronx Pk. (Not); NYC,

May-Sep (Schaupp); **SI**; **LI**: Brooklyn, May-Je, *Shoe*; Jamaica, May, *Nic* (Not); Forest Lawn, Jl, *Zab* (Not); Bellport, Jl, Aug, *Nic*; E. New York, Je (Not).

- 902 **P. septentrionis** Dej. var. **tenuis** Lec. Mt. Marcy; Mt. Redfield; Moss Pond; Jl; (all Not).

#### PLATIDIUS Chaudoir

- 908 **P. rugicollis** Rand. Keene Val., Westfield, May-Aug (Not); Catskills, ex coll. *Nic*; Hemlock Mt., Je, *Woodr* (Not); Callicoon (Schaupp); NYC (Rand).

— **P. longipalpus** Not. Keene Hgts., Jl (Not), type.

#### TRECHUS Clairville

- 909 **T. borealis** Schaef. Whiteface Mt., Jl-Sep, *Bdy* (Lg&Vdyk); Cliff Mt., Mt. Redfield, Mt. Marcy, Jl-Oct (Not); Chapel Pond, Je, *Bish* (Dt); Olcott, Mar (Dt); Howland I. (Vdyk); Ulster Co, Jl, Sep, *Nic*; **LI**: North Beach (Sf).

- 910 **T. chalybeus** Dej. Mt. Whiteface, Mt. Marcy, Sep-Oct (Lg); Rochester (M&W); **LI**: Bellport, *Nic* (Sf).

**T. hydropicus** Horn. Catskill, Oct (Not).

#### MYAS Dejean

- 929 **M. coracinus** Say. Manlius (Vdyk); Rock City, Je, trapped in molasses jar (Not); Ithaca, May (Dt); Coy Glen, Jl, one under stone and another under log in deep woods, *Dt* (Vdyk); North Branch (Schaupp); **SI**, Je-Sep (L&B); Silver L., Sep (Sf); Montauk, Jl (Ang); Huntington, Je, *Schott* (Sf).

- 930 **M. foveatus** Lec. "NY" (Lec); Catskills, Aug, *HarrED* (Sf); **LI**: Wading R., *Eng* (Sf).

#### CYLINDROCHARIS Casey

- 933 **C. rostrata** Newm. Old Forge, Aug (Vdyk); Westfield (Not); Rock City, Caroline, Ringwood, Coy Glen, Je-Jl, *Dt* (Vdyk); Ithaca, Ap-Sep, *div.* (Vdyk).

- 935 **C. piceata** Csy. Saranac L., Keene Val., Upper Ausable L., Wilmington, Sodus Pt., Westfield, Rock City, Je-Sep (Not); Johnstown, Ap, Pike, Sep (NYS); Hebron; North Branch (Schaupp); **LI**: Jamaica, *Nic* (Not).

**C. grandiceps** Lec. "NY" (Lec).

#### PTEROSTICHUS Bonvouloir

**P. rejectus** Lec. Keene Val., Red House, Tivoli; Rensselaerville, May-Je (Not).

- 1006 **P. adoxus** Say. Keene Val., Norwood, Saranac L., Long L., Mt. Marcy, Wilmington, Lowville, White L., Sodus Pt., Westfield, Rock City, Rensselaerville, Hebron, Catskills, Catskill, Ramapo, Je-Sep (Not); Westport, Sep, *Nic*; St. Lawrence Co, *Houghton*; Rochester (M&W); Saranac Inn (NYS); Boston, Erie Co (Dnd); Buffalo (Z&R);



Ithaca, Je-Sep, *div* (Vdyk); Ringwood, Coy Glen, Windom, McLean Bogs, Cortland Co, McLean Bogs, Junius, Aug, Norton's, May-Aug, *Dt* (Vdyk); Peekskill (Vdyk); West Pt. (Robn); **SI**: North Branch (Schaupp); Clove Val., Jl-Aug, *Ds* (Not); **LI**: Flatbush, *Zab* (Not); Bellport, Jl-Aug, *Nic*; Yaphank, Je, Sep, *Ds* (Not).

#### GASTRELLARIUS Casey

- 1024 **G. honestus** Say. Keene Val., Upper Ausable L., Saranac L., N. Elba, Wilmington, Lowville, White L., Parkers, Waterville, Sodus Pt., Westfield, Canisteo, Windsor, Je-Oct (Not); Olcott, Mar, Je, Aug, Oct (Dt); Taughannock Gorge, Aug, *Hamilton* (Vdyk); Hebron; St. Lawrence Co, *Houghton*; Rochester (M&W); Buffalo (Z&R); E. Aurora, Allegheny R. (Dnd); Pike, Nov (NYS); Portageville, Je (Vdyk); Ithaca, McLean Bogs, Coy Glen, Caroline, Ap-Nov, *Dt* (Vdyk); Catskills, *Nic*; Big Ind. Val., Aug, *Pears* (Not); Haines Falls (Vdyk); North Branch (Schaupp); Slide Mt., Je-Jl, *Shoe*; Rensselaer, *Houghton* (NYS); **LI**: Jamaica, *Nic* (Not).

#### ANAFERONIA Casey

- 1030 **A. substriata** Lec. "NY", *Julich*, Say (div.).

#### CYCLOTRACHELUS Chaudoir

- 1045 **C. unicolor** Say. "NY" (Schaupp, L&B).

#### EUMOLOPS Casey

- 1056 **E. furtiva** Lec. Westfield, May (Not).  
1058 **E. sodalis** Lec. Boston, Hamburg, Marilla (Dnd); Windom, Oct, *Knapf* (Vdyk).

#### EVARTHURUS LeConte

- 1067 **E. sigillatus** Say. Albany (Say).

#### MONOFERONIA Casey

- 1077 **M. osculans** Csy. (*diligendus* Lec. nec Chd.). Keene Val., Upper Ausable, Parkers, Saranac L., Ausable Lakes, Canisteo, May-Sep (Not); Manlius, May, *SmHH* (Vdyk); Rochester (M&W); Ithaca, McLean Bogs, Ringwood, Caroline, Ap-Jl, *Dt* (Vdyk); Catskills, Sep, *Nic*; Big Ind. Val., Jl, *Pears* (Not); West Pt. (Robn).

#### EUFERONIA Casey

- 1085 **E. relicta** Newn. Mt. Marcy (NYS); Ausable, Westfield, May-Je (Not); Ithaca, Coy Glen, Ringwood, Ap-Sep, *Dt* (Vdyk); Ramapo Mts. (AM).  
1088 **E. vapida** Csy. Adirondack Mts., *Kemp* (Csy).  
1089 **E. stygica** Say. Crown Pt., Ausable Chasm, Waterville, Ausable Forks, Jay, Batavia, Rock City, Windsor, Whitehall, Sodus Pt., May-Oct (Not); Rochester (M&W); Olcott, Feb, Je, Oct (Dt); western NY,

common in damp places (Dnd); Pike, Ap (Say); Buffalo (Z&R); Olean, Sep (Vdyk); Westfield, May (Not); Castile, *Brad* (Flet); Ithaca, Ap-Sep, *div.* (Vdyk); Honeoye Falls, May (Vdyk); McLean Bogs, Caroline, Ringwood, Ap-Jl (Vdyk); Albany, May (Say); E. Jewett, *Ds* (Not); Peekskill (Vdyk); West Pt. (Robn); Mosholu, Bronx, May; Forest Lawn, Huguenot, Jl, *Zab* (Not); Bronxville, Bronx, NYC, Ap-Jl (Woodr); Van Cort. Pk., Mar-Oct, *Nic* (Not); **SI** (L&D); **LI**: Babylon, Je, Jl, *Bradford*; L. George, Aug, *Zab*; Jamaica, *Nic* (Not).

- 1093 **E. coracina** Newm. Essex Co, *Dt* (Vdyk); St. Lawrence Co, *Houghton*; Keene Val., Upper Ausable, Ausable Chasm, Ausable Forks, Mountain View, Mt. Marcy, N. Elba, Whiteface Mt., Port Kent, Parkers, Batavia, Rock City, Red House, Westfield, Forest Lawn, Tivoli, May-Sep (Not); Syracuse, Ap (H); Manlius, May, *SmHH* (Vdyk); Rochester (M&W); Olcott, May-Oct (Dt); Niagara (Lec); Buffalo, Ithaca, Ap-Sep, *div.* (Vdyk); Taughannock Gorge, Caroline, Coy Glen, Smith Hill, Ringwood, Junius, Ap-Aug, *Dt* (Vdyk); McLean, *Ds* (Not); Long Eddy, Cy (Vdyk); Haines Falls (Vdyk); Catskills, *Nic*; Big Ind. Val., Aug, *Pears*; Poughkeepsie (NYS); E. Jewett; West Pt. (Robn); **LI**: Yaphank, Je (Not); E. Patchogue, Wyandanch, Jl-Sep, *Ds* (Not).

- 1095 **E. adjuncta** Lec. "NY" (Lec).

- 1097 **E. lachrymosa** Newm. Newport, May (NYS); Syracuse, Ap (H); Manlius, Aug, *SmHH* (Vdyk); Olcott, Ap, Sep-Oct (Dt); Pike, May (Vdyk, NYS); E. Aurora (Dnd); Westfield, May (Not); Canisteo, Je (Not); Ithaca, Ap-Sep, *Hamilton*, *Dt* (Vdyk); McLean Bogs, Coy Glen, Caroline, Ap-Jl, *Dt* (Vdyk); Callicoon, Jl; West Pt. (Robn).

#### LYPEROPHERUS Motschulsky

- 1098 **L. punctatissimus** Rand. Mt. Whiteface, 4000 ft., Jl-Aug, *div.* (Vdyk); Mt. Marcy, 4500 ft., Wallface Mt., 3000 ft., Upper Ausable L., 2000 ft., Jl-Sep (Not).

#### REFONIA Casey

- 1100 **R. moesta** Say. Pike, Mar, *Yg* (NYS); Rock City, Je (Not); Ramapo, Suffern, Ap-Oct; NYC, Je-Sep (Schaupp); **SI** (L&D).
- 1101 ?**R. superciliosa** Say. Ithaca, Ap (Morr).

#### ABACIDUS LeConte

- 1103 **A. sculptus** Lec. "NY" (Wickham).

#### GASTROSTICTA Casey

- 1110 **G. obscura** Say. "NY" (Lec).

#### CRYOBIUS Chaudoir

- 1137 **C. hudsonicus** Lec. Summit of Mt. Marcy, Whiteface Mt., Jl, Oct (Not).
- 1141 **C. arctica** Chaud. Whiteface Mt., Sep (div.); Mt. Marcy, Mt. Hopkins, Mt. Skylight, Moss Pond, Green Mt., Jl-Oct (Not).
- 1145 **C. mandibularis** Kby. Mt. Marcy, Mt. Whiteface, Sep-Oct (Vdyk).

## POECILUS Bonvouloir

- 1161 **P. chalcites** Say. Lower Ausable L., Ausable Lakes, Mt. Marcy, Sodus Pt., Westfield, Pulaski, May-Jl (Not); Rochester (M&W); Honeoye Falls, Je (Vdyk); Montour Falls, Ap (H); E. Aurora (Dnd); Buffalo (Z&R); Ithaca, Ap-Sep, *Hamilton* (Vdyk); W. Hebron; Orange Co, Ap, *Faure* (Morr); Peekskill (Vdyk); West Pt. (Robn); NYC, Mar-Jl (Woodr); Van Cort. Pk.; **SI**, May-Sep, *Ds*; **LI**: Farmingdale, Jl, *Morrow* (Vdyk); Rockaway Beach, May-Jl, *Shoe*, *Nic* (Not, Woodr); Babylon, *Bradford*; Flatbush, Jl, Coney I., Oct, *Zab*; Jamaica, Feb, *Nic* (Not).
- 1162 **P. lucublandus** Say. Castile, May, *Brad* (Flet); generally distributed and common throughout the State.
- 1163 **P. bicolor** Lec. "NY" (Lec).
- 1164 **P. convexicollis** Say. St. Lawrence Co, *Houghton*; Batavia, Je, *Ds*.

## LOPHOGLOSSUS LeConte

- 1165 **L. gravis** Lec. **SI**: Watchogue, edge of salt meadow (L&D).
- 1167 **L. tartaricus** Say. **SI** (L&D).
- 1168 **L. strenuus** Lec. Buffalo (Z&R); **LI**: Ridgewood, May (Schaupp); Brooklyn (Fuchs); Astoria, Sep (Bt); Cypress Hills, May, *Zab*.
- 1169 **L. scrutator** Lec. Ausable Pt., Crown Pt., Cape Vincent, Oakfield, Aug-Sep (Not); Batavia, Je, *Ds*; Buffalo (Z&R); Ithaca, Aug, *Dt* (Vdyk); **LI**: Jamaica, Mar, Queens, *Nic*.

## OMASEUS Ziegler

- 1174 **O. caudicalis** Say. Peru (Vdyk); Axton, Je, *M&H*; Newport, May (NYS); Keene Val., Ausable Pt., Lowville, Norwood, Crown Pt., Mooers, Port Kent, Ausable Chasm, Red House, Westfield, Canisteo, Nichols, Whitehall, Inwood, May-Sep (Not); Olcott, Feb, Sep (Dt); Pike, Oct (NYS); Batavia, Je, *Ds*; E. Aurora (Dnd); Ithaca, Ap-Sep, *Diwen* (Vdyk); McLean Bogs, Aug, *Yuasa* (Vdyk); West Pt. (Robn); NYC, Ap (Vdyk).
- 1173 **O. ebeninus** Dej. Rochester (M&W); Ithaca, Ap-May (Morr).
- 1175 **O. luctuosus** Dej. Axton, Je (M&W); Plattsburg, Ausable Chasm, Upper Ausable, Unadilla, Norwood, Cape Vincent, Batavia, Canadice, Oakfield, Sodus Pt., Potter Swamp, W. Hebron, Whitehall, Schoharie, E. Jewett, Tivoli, Forest Lawn, Catskills, Windsor, Je-Sep (Not); Syracuse, Montour Falls, Ap (H); Rochester (M&W); Olcott, Mar, May, Jl, Oct (Dt); Ithaca, South Hill, Turkey Hill, Taughannock Gorge, Renwick, McLean Bogs, Jl-Nov, *Dt* (Vdyk); Van Cort. Pk., Bronx, Mar, Ap (Woodr); **LI**: Rockaway Beach (Vdyk); Canarsie, Ap, May (Not); Brooklyn, Ap-Oct, *Ds*, *Shoe* (Not); Rockaway Beach, May, *Ds*, *Nic* (Not); Greenport, Aug, *Ds*; Rosedale, Ap (Not); Jamaica, Ap, Bellport, Ap-Je, *Nic* (Not); Jamaica Bay, Ap (Woodr).
- 1176 **O. corvinus** Dej. Generally distributed and common throughout the State, except at elevations above 500 ft. in northern NY, where it is absent.
- **O. brevibasis** Csy. NY, type locality.

## DYSIDIUS Chaudoir

- 1177 *D. purpuratus* Lec. Elmira, May, on ground in field (Diven).  
 1178 *D. mutus* Say. Castile, *Brad* (Flet); generally distributed and common throughout the State.

## PSEUDARGUTOR Casey

- 1181 *P. erythropus* Dej. Axton, Je, *M&H*; St. Lawrence Co, *Houghton*; Keene Val., Whiteface Mt., N. Elba, Oakfield, Batavia, Windsor, Whitehall, Je-Oct (Not); Syracuse, Ap (H); Olcott, Ap, Sep (Dt); Buffalo (Z&R); Chaffee (Dnd); E. Aurora (Dnd); Ringwood, McLean Bogs, Taughannock, South Hill, May-Nov, *Dt* (Vdyk); Albany, May, *SmHH* (Vdyk); West Pt. (Robn); Dunwoodie, Ap (Woodr); **SI** (L&D); **LI**: Rockaway Beach, Ap-May (div.); Cypress Hills, May, *Zab* (Not); Coney I., May, *Nic*; Brooklyn, Jamaica, Mar-Apr, *Nic*; Jamaica Bay, Cedarhurst, Ap (Woodr); Yaphank, Je (Not); E. New York, Je (Not); Rosedale, Ap (Not).

## MICROMASEUS Casey

- 1182 *M. patruelis* Dej. St. Lawrence Co, *Houghton*; Upper Ausable, Cape Vincent, Sodus Pt., Batavia, Oakfield, Whitehall, Tivoli, Orangeburg, Je-Sep (Not); Syracuse, Ap (H); Rochester (M&W); Olcott, Feb-Jl (Dt); Buffalo (Dnd); Pike, Ap (NYS); Howland I., Nov (Vdyk); Ithaca, Mar-Aug, *Hamilton* (Vdyk); Ringwood, McLean Bogs, Renwick, Mar-Nov, *Dt* (Vdyk); McLean, Ap (Morg); Peekskill (Vdyk); Ramapo, Je (Not); Bronxville, Je (Not); Van Cort. Pk., *Nic* (Not); **SI**, Feb-Nov; **LI**: Rockaway Beach, Ap-May, *Diven* (Not); Pinelawn, Mar, *Ds* (Not); Rosedale, Ap (Not); Jamaica, Brooklyn, Jamaica Bay, Mt. Hamilton, Ap (Woodr); Canarsie, Ap-May (Not); Brooklyn, May, *Ds* (Not).  
 1183 *M. femoralis* Kby. Rochester (M&W); Pike, Aug (NYS); Norton's, Oct, *SmHH* (Vdyk); Taughannock Gorge, May, *Dt* (Vdyk).  
 1186 *M. corrusculus* Lec. Rochester (M&W); **LI**: Wyandanch, Oct, E. New York, May, Rosedale, Ap (Not).

## BOTHRIOPTERUS Chaudoir

- 1188 *B. pennsylvanicus* Lec. Keene Val., Mountain View, Waterville, Ausable Chasm, Parkers, Forest Lawn, Whitehall, Je-Oct (Not); Olcott, Ap, Oct (Dt); Grand I., Niagara R. (Dnd); Batavia, Je; Coy Glen, Turkey Hill, South Hill, Ithaca, McLean Bogs, Caroline, Ap-Nov, *Dt* (Vdyk); **LI**: Babylon, Je, *Bradford*; Manitou Beach, Je, *Zab* (Not).  
 1190 *B. oblongonotatus* Say. Hebron (Not).  
 1192 *B. adstrictus* Esch. St. Lawrence Co, *Houghton*; Buffalo (Z&R).  
 1194 *B. luczoti* Dej. Wilmington, Aug, *Dt* (Vdyk); Mt. Whiteface, 2000 ft., Aug-Sep (div.); St. Lawrence Co, *Houghton*; Ilion (NYS); Buffalo (Z&R); Keene Val., Upper Ausable L., Mountain View, N. Elba, Saranac L., Mt. Marcy, Long L., May-Oct (Not).

## LOXANDRUS LeConte

- 1214 *L. erraticus* Dej. **SI**, Feb, *Lg*, a single specimen.

## CURTONOTUS Stephens

- 1251 **C. brunnipennis** Dej. NY, Edw (AM).  
 1258 **C. elongatus** Lec. NY, Edw (AM).  
 1259 **C. pennsylvanicus** Hayw. Port Kent, Cape Vincent, Sep (Not); Olcott, Sep (Dt); Ithaca, Sep, *Lg*; West Pt. (Robn); Van Cort. Pk. (Woodr); **SI**: Mar, *Ds*; Tottenville, Sep, *Ds* (Not); **LI**: Rockaway Beach, Sep, *Ds*, *Nic* (Not); Brooklyn, Je-Aug, *Shoe*.

## STEREOCERUS Kirby

- 1260 **S. haematopus** Dej. "NY" (AM).

## LEIRONOTUS Ganglbauer

- 1261 **L. arenarius** Lec. Keene Val., Lower Ausable L., Indian Pass, Wallface Mt., L. Tear, Westfield, Je-Jl (Not); Buffalo (Z&R).

## LEIOCNEMIS Zimmermann

- 1262 **L. avida** Say. Axton, Je, M&H; Lower Ausable L., Sodus Pt., Nichols, May-Aug (Not); Rochester (M&W); Olcott, Ap (Dt); E. Aurora (Dnd); Buffalo (Z&R); Olean, Sep (VdykCU); Ithaca, Mar (Vdyk); W. Hebron, Je, *Lg*; Mosholu (Not-AM); Bronx, Ap-Nov (Woodr); NYC, *Ds* (Not); **SI**, Je, *Ds* (Not); **LI**: Rockaway Beach (AM); Ravenswood (AM); Jamaica, May (Not); Bellport, Aug (Not).

## BRADYTUS Stephens

- 1265 **B. exaratus** Dej. Rochester (M&W); Red House, Ithaca, Mar-Je (Not); Mosholu (AM); Dunwoodie, Ap, Bronxville, Je (Woodr); Van Cort. Pk., Oct-Nov (Not); **SI**, Sep, *Lg*; **LI**: Brooklyn, Je-Sep, *Shoe*; Ravenswood (AM); Rockaway (AM); Jamaica, May (Not); Port Washington, Oct (Not); Rockaway Beach, Aug-Sep (Woodr); Half Way Hollow Hills, Selden, Jl-Aug, *Ds* (Not); Orient, Jl, *Lath* (Not).  
 1267 **B. apricarius** Payk. Adirondack Mts. (Rehn&Hebard); Axton, Je (M&H); Crown Pt., N. Elba, Keene Val., Batavia, E. Jewett (Not); Olcott, Je-Jl (Dt); Ithaca, Je-Jl, Sep, *Dt*, Hebron, W. Hebron, Je (Lg); **SI**, May-Aug (Not); **LI**: Brooklyn, Oct (Not-AM); Woodside, *Ds*; Orient, Jl-Sep, *Lath* (Not).  
 1271 **B. schwarzi** Hayw. Buffalo, Boston (Dnd); **LI**: Babylon, Jl (AM).  
 1272 **B. latior** Kby. Keene Val., Mountain View, Norwood, Je-Sep (Not); Olcott, Oct (Dt); Batavia, Je, *Lg*; E. Aurora (Dnd); Castile, Apr, *Brad* (Flet); Ithaca, Je (Dt); Albany, Aug (NYS); Catskills (Not).

## PERCOSIA Zimmermann

- 1281 **P. obesa** Say. Keene Val., Mountain View, Norwood, Ausable Lakes, Long L., Waterville, Schoharie, Whitehall, Debruce, Je-Sep (Not); Rochester (M&W); Olcott, May (Dt); Buffalo (Z&R); E. Aurora (Dnd); Genesee Co, Je, *Ds*; Batavia; Orleans Co, Je (Ds); Sullivan Co (Ds); Hebron (Lg); NYC, May-Nov (Schaupp); **SI** (Not); **LI**: Rockaway Beach, Je (NYS).  
 1284 **P. ventricosa** Csy. **LI** (Csy).



## CELIA Zimmermann

- 1285 *C. patruelis* Dej. Mt. Whiteface (Not); St. Lawrence (Houghton); Erie Co (Dnd); NYC (Schaupp); **SI**: Watchogue, Ap-Jl, *Ds* (Not); **LI**: Jamaica, Rockaway Beach, May, *Nic* (Not).
- 1289 *C. erratica* Sturm. Keene Val.; Lower Ausable; Whiteface Mt.; Wilmington; Mt. Marcy; Ap-Sep; (all Not).
- 1302 *C. laticollis* Csy. Keene Val., Je (Not); Johnstown, Ap (NYS); Van Cort. Pk., *Nic* (Not); **SI**, Nov (Lg); **LI**: Sheepshead Bay (Csy); Rockaway Beach (Csy, Lg-AM); Babylon, Je (AM); Jamaica, Wading R., May, *Nic* (Not); Orient, Aug, *Ds* (Not).
- 1308 *C. mimica* Csy. Ausable Pt., Sep (Not).
- 1309 *C. remotestriata* Dej. Buffalo, scarce (Dnd).
- 1318 *C. sodalis* Csy. **SI** (Csy).
- 1319 *C. chalcea* Dej. Ausable Pt., Sep (Not); Axton, Je (AM); Peekskill, Dec, *Lg* (AM); Westchester, Ap, *Lg*; Bronxville, Mar (Woodr); NYC, May-Nov (Schaupp); **SI**, Feb-Sep, *Lg* (Not); **LI**: Rockaway (AM); Jamaica, Bellport, Farmingdale (Not); Rockaway Beach, Baldwin, May-Je, *Ds* (Not).
- 1324 *C. schotti* Csy. **LI**: Jamaica, *Schott* (Csy).
- 1325 *C. sphaerops* Csy. **LI**: Wyandanch (Csy).
- 1334 *C. brunnea* Gyll. Mt. Whiteface (Not, Lg).
- 1348 *C. nupta* Csy. L. Champlain (Csy).
- 1350 *C. subaenea* Lec. Keene Val., Jl (Not); **SI**, Sep (Lg); **LI**: Rockaway Beach, May (Woodr).
- 1354 *C. lyncea* Csy. **LI**: Sheepshead Bay (Csy).
- 1358 *C. liquida* Csy. **LI** (Csy).
- 1360 *C. shoemakeri* Csy. **LI**, *Shoe* (Csy).
- 1361 *C. pallida* Csy. **LI**: Willetts Pt. (Csy).
- 1362 *C. politissima* Csy. **LI** (Csy).
- 1367 *C. nigripennis* Csy. **LI**: Willetts Pt. (Csy).
- 1372 *C. musculus* Say. N. Elba (Not); Rochester (M&W); Olcott, Je, Aug (Dt); Buffalo (Z&R); Pike (NYS); L. George, Sep, *Zab* (AM); **SI**, Sep (Lg); **LI**: Coney I., May-Sep, *Zab* (SchauppAM); Rockaway Beach, May-Sep (div.); Jamaica, *Nic*; Wading R., Jamaica, May-Sep (Not).
- 1375 *C. paulula* Csy. **LI**: Wading R. (Csy).
- 1378 *C. rubrica* Hald. Keene Val., Aug-Sep (Not); N. Elba (Not); Rochester (M&W); L. George, Aug, *Zab* (Not); Nyack, Van Cort. Pk., Sep, *Zab* (Not); **SI** (Lg); **LI**: Rockaway Beach, May (div.); Brooklyn, Je, *Shoe*; Long Beach (AM); Babylon, Je (AM); Flatbush, *Zab* (Not); Bellport, Aug, *Nic* (Not); Maspeth, Sep, Baldwin, May, Yaphank, May, *Ds* (Not).

## AMARA Bonvouloir

- 1384 *A. arcuata* Csy. **LI**: Willetts Pt. (Csy).
- 1385 *A. impuncticollis* Say. Castile, *Brad* (Flet); generally distributed and common throughout the State.

- 1389 **A. fallax** Lec. Keene Val., N. Elba, Mt. Whiteface, Mt. Marcy, Sodus Pt., Genesee Co., Westfield, Bronx Pk., Ap-Jl (Not); Rochester Jct., Honeoye Falls, Je, *Leon* (Vdyk); Rochester (M&W); Buffalo (Z&R); **SI**, Ap-Jl (Not); **LI**: Brooklyn, Rockaway Beach, May-Sep, *Shoe*; Tarrytown (AM); Jamaica, Bellport, Forest Pk., Aug, *Nic* (Not).
- 1398 **A. humilis** Csy. Keene Val., Canisteo, Nichols, May-Je (Not); **LI**: Rockaway Beach, May, *Ds*, *Nic* (Not); Jamaica, Forest Pk., *Nic* (Not); Wading R., May (Not).
- 1400 **A. cupreolata** Putz. Keene Val., Mt. Haystack, Mt. Marcy, Wilmington, Ap-Aug (Not); Syracuse, Ap-May (H); E. Aurora (Dnd); Castile, May, *Brad* (Flet); Ithaca, Ap-Jl (VdykCU); White Plains, May (Sf); Bronx, Ap, Van Cort. Pk., May (Woodr); **SI**: Clove Val., May, Aug, *Lg*; **LI**: Brooklyn (Vdyk); Rockaway Beach, May, *Nic* (Not); Flatbush, May, *Zab* (AM).
- 1402 **A. marquettensis** Csy. Ithaca, Ap, *Kngt* (Not).
- 1403 **A. aeneopolita** Csy. Mt. Marcy, Keene Val., Mt. Whiteface, Windsor, May-Jl (Not).
- 1415 **A. polita** Lec. Mt. Reserve, Keene Val., Ausable Forks, Pulaski, Sodus Pt., Je-Aug (Not); Rochester (M&W); Olcott, Mar-Oct (Dt); western NY, common (Dnd); Ithaca, Ap (Dt); West Pt. (Robn); Bronxville, NYC, Van Cort. Pk., Ap-May (Woodr)..
- 1423 **A. crassispina** Lec. Turkey Hill, Ithaca, Nov, *Dt* (Vdyk); **SI**, Mar (Woodr).
- 1424 **A. parviceps** Hayw. West Pt. (Robn).
- 1429 **A. basillaris** Say. Bronx, Bronxville, Ap (Woodr); **LI**: Brooklyn, Rockaway Beach, Sep, *Shoe*.
- **A. edax** Not. Windsor (Not).
- **A. teres** Not. Westfield, May (Not).

#### TRIAENA LeConte

- 1430 **T. pallipes** Kby. Keene Val., *Wat*; Windsor, Je-Jl (Not); St. Lawrence Co., *Houghton*; northern NY (Lec); West Pt. (Robn).
- **T. lawrenceana** Csy. NY, type locality.
- **T. parallela** Csy. NY, type locality.
- 1433 **T. angustata** Say. Generally distributed and common throughout the State.

#### REMBUS Latreille

- 1441 **R. major** Lec. Buffalo (Z&R); Ithaca, Jl (Vdyk).
- 1442 **R. laticollis** Lec. Norwood, Sodus Pt., Westfield, May-Sep (Not); Syracuse (Lint); Rochester (M&W); Buffalo (Z&R); Batavia, Je (Lg); E. Aurora (Dnd); Montour Falls, Ap (H); McLean, Jl-Aug, Ithaca, Aug, *Dt* (Vdyk); **SI** (Lg); **LI**: Rockaway Beach, Brooklyn, Ap, Je, *Shoe*.
- 1442c **R. laticollis** var. *assimilis* Lec. "NY" (Lint).
- 1443 **R. impressicollis** Dej. Waterville, Je; Sodus Pt., May, Je (Not); Genesee Co., Je, *Ds*; Batavia, Je (Lg); Taughannock, Je, and Ithaca, Aug (Vdyk); Whitehall, Oct (Not); **SI**, May (L&D).

- 1444 *R. obtusa* Lec. Keene Val., Sep (Not); Syracuse, May (H); Sturgeon Pt., on L. Erie (Dnd); Ithaca, Aug (Vdyk).  
 1446 *R. alternans* Csy. Cape Vincent, Waterville, Sodus Pt., May-Sep (Not); Genesee Co, May (Lg); McLean Bogs, Ithaca, JI (Vdyk).  
 — *R. brevicollis* Csy. Ogdensburg (Csy).  
 — *R. foveata* Csy. NY, type locality.

## DICAELUS Bonelli

- 1450 *D. dilatatus* Say. Syracuse, May, Oct (H); Rochester (M&W); Buffalo (Z&R); Ithaca, Ap-Sep, *div.* (Vdyk); Fall Cr., Cascadilla Cr., Larch Meadows, Ap-May (Dt); Karner, May (NYS); Greenwood L., May (AM); Schoharie, Ft. Montgomery, May-Je (Not); Catskills, Je, *Nic* (NotNYS); Big Ind. Val., Aug (Not); Peekskill (VdykCU); North Branch (Schaupp); West Pt. (Robn).  
 1454 *D. purpuratus* Bon. "NY" (AM); **SI**, Aug, *L&D* (Not).  
 1463 *D. crenatus* Lec. Buffalo (Z&R).  
 1464 *D. ovalis* Lec. Buffalo (Z&R); McLean Bogs, Nov (Vdyk).  
 1465 *D. elongatus* Bon. Newport, Je (NYS); Erie Co, frequent in woods under cover (Dnd); Buffalo (Z&R); Ithaca, May-Sep, *div.* (Vdyk); McLean Bogs, JI, *div.* (Vdyk); Cascadilla Cr., Ap-Mar (Dt); Freeville, Ringwood, Caroline, Ap-JI (Vdyk); Schoharie, Whitehall, Je-Oct (Not); Peekskill (Vdyk); Catskills, Nov, *Nic* (Not, Lg); Hebron (Lg); Van Cort. Pk., Ap (Woodr); Ramapo, Rockland, Sep-Oct (Ds); **SI**: Clove Val., Mar-Aug (Lg); **LI**: Bellport, Jamaica, Je-Aug, *Nic* (Not); Bergen Beach, May, Je (Not AM); Woodhaven, Je, *Zab* (AM); Flatbush, May, *Zab* (AM); Brooklyn, May-Je, *Shoe*; Orient Pk., May, *Lath* (NYS); Yaphank, Je (Not); Oyster Bay, Aug (Ds); Selden, Half Way Hollow Hills, Orient, *Ds* (Not).  
 1466 *D. ambiguus* Laf. Streetroad, Je (NYS).  
 1467 *D. teter* Bon. Upper Jay, Aug (Not); Syracuse, Montour Falls, Ap (H); Rochester (M&W); Olcott, Je, Aug (Dt); E. Aurora (Dnd); Buffalo (Z&R); Westfield, May (Not); Rock City, Je, *Ds* (Not); Ithaca, May-Aug, *Dt* (Vdyk); Caroline, Ap, *Dt* (Vdyk); Schoharie, Je (Not); Catskills, *Nic* (Not, Lg); Peekskill, Ap (Vdyk CU); Ramapo, Ap, *Ds*.  
 1468 *D. politus* Dej. Keene Val., Je (Not); Syracuse, Montour Falls, Ap (H); Rochester (M&W); E. Aurora, Allegany Pk. (Dnd); Westfield, May (Not); Ithaca, *div.* (Vdyk); Coy Glen, Larch Meadows, May (Dt); Ringwood, JI, Taughannock, May, *Dt* (Vdyk); W. Hebron (Lg); Catskills, Sep, *Nic* (Not); West Pt. (Robn); Inwood, NYC, Ap (Woodr); **SI**, Ap; **LI**: Queens, Ap, Wyandanch, May, *Nic* (Not); Half Way Hollow Hills, May, *Ds* (Not).

## BADISTER Clairville

- B. gilvipes* Csy. **LI** (Csy).  
 1470 *B. notatus* Hald. St. Lawrence Co, *Houghton*; Syracuse, Ap-May (H); Ithaca, Mar-Oct (Vdyk CU); Turkey Hill, Nov (Vdyk); Six Mile Cr., Ap (Not); Schoharie, Je (Not); Van Cort. Pk., Mar (Woodr); **SI**, May, Je (*div.*); **LI**: Brooklyn, Ap, May, *Shoe*; Forest Pk., Ap, *Nic* (Not).

- 1471 **B. pulchellus** Lec. Keene Val., Cape Vincent, Wilmington, Je-Sep (Not); Syracuse, Ap (H); Rochester (M&W); Batavia, Jl-Aug, *Kngt* (Not); E. Aurora (Dnd); Buffalo (Z&R); Ithaca, Je, *Sm* (Vdyk); McLean Bogs, Aug, *Hamilton* (Vdyk); West Pt. (Robn); Suffern (AM); Bronx, Dec, *Nic* (Not); **SI**, May (Lg).
- 1472 **B. bipustulatus** Fab. St. Lawrence Co (Houghton).
- 1476 **B. ferrugineus** Dej. Buffalo (Z&R). Known from Alaska and Calif.
- 1478 **B. flavipes** Lec. "NY" (Wickham).
- 1479 **B. micans** Lec. Ausable Pt., Cape Vincent, Waterville, Je-Sep (Not); Olcott, Oct (Dt); Ithaca, Ap, Jl, *SmHH* (Vdyk); Peekskill, Jl (Vdyk CU); NYC, Bronx, Ap-Je (Woodr); Van Cort. Pk., Mar (Woodr); **LI**: Jamaica Bay, Ap (Woodr).
- 1480 **B. laticeps** Blatch. Taughannock, May, *Dt* (Vdyk).
- 1481 **B. reflexus** Lec. Howland I. (VdykCU); McLean Bogs, Aug, *Dt* (Vdyk).

## CALATHUS Bonelli

- 1482 **C. gregarius** Dej. Castile, Ap, *Brad* (Flet); generally distributed and common throughout the State.
- 1483 **C. ingratus** Dej. Wilmington, Aug, *Dt* (Vdyk); Mt. Whiteface, Jl-Sep, *div.* (Vdyk, Not); Parkers, Je (Not); Green Mt., Jl (Not).
- 1484 **C. opaculus** Lec. Syracuse, Ap (H, VdykCU); Forest Lawn, Jl (Not); McLean Bogs, Nov, *Dt* (Vdyk); Ithaca, Aug (Vdyk); Bronx, Ap (Woodr); **SI**, Mar (Lg); **LI**: Yaphank, Aug, *Nic* (Not); Shinnecock Hills, *Ds*.

## PRISTODACTYLA Dejean

- 1488 **P. advena** Lec. Mt. Whiteface, trail, Aug, *Dt* (Vdyk, Not); Mt. Marcy, Mt. Redfield, Moss Pond, Mt. Redfield, Jl (Not).
- 1489 **P. impunctata** Say. Axton, Je, *M&H*; Wilmington, Aug, *Ds* (Vdyk); Keene Val., Ausable Forks, Mooers, W. Hebron, Parkers, Sodus Pt., Catskills, Ulster Co, Debruce, Je-Aug (Not); Olcott, Sep (Dt); L. Champlain (Sf); Hamilton Co, *Ds*; Crugers, Je (Not AM); Ithaca, Sep (VdykCU); McLean, Ap (Flet); Albany (NYS AM); North Branch (Schaupp); Peekskill (VdykCU); **SI**: Clove Val., Aug, *Ds* (Not); **LI**: Long Beach (Vdyk); Bellport, Jl, *Nic* (Not); Rockaway Beach, Wyandanch, Yaphank, Je-Oct, *Ds* (Not).

## PLATYNUS Bonelli

- 1507 **P. hypolithos** Say. Gloversville, Je (NYS); Oneida Co, Sep, *Shoe*; Rochester (M&W); Olcott, Je-Jl, Sep-Oct (Dt); E. Aurora and Allegany Pk., common (Dnd); Batavia, Je, *Kngt* (Ds, Lg); Buffalo (Lg, Z&R); western NY (Lint); Chautauqua (VdykCU); Manlius, Aug, *SmHH* (Vdyk); Red House; Unadilla, Westfield, May (Not); Olean, Sep (VdykCU); Castile, *Brad* (Flet); Ithaca, Aug, Larch Meadows, Jl (Hamilton); McLean Bogs, Jl-Aug, *Dt* (Vdyk).
- 1508 **P. angustatus** Dej. John's Br., and Upper Ausable L., Aug-Sep, *Nic* (Not); Wilmington, Aug, *Dt* (Vdyk); Fourth L., Je (NYS); Haines Falls (VdykCU); Pike (VdykCU); western NY (Lint); Buffalo (Z&R); Olean, Sep (Vdyk); Chautauqua (Ds); Rock City, Jl, *Kngt*

(Not); Canisteo, Windsor (Not); Ithaca, May, Sep, *Hamilton*, *Dt* (Vdyk); McLean Bogs, Ringwood, Coy Glen, Je-Jl (Dt); Catskills (Lint); North Branch (Schaupp); L. George, Aug, *Zab* (AM); Peekskill (Vdyk CU); Olivera, Je-Jl, *Shoe*; West Pt. (Robn); Ulster Co, Aug-Sep, *Nic* (Not); **SI** (L&D); **LI**: Jamaica, *Nic* (Not).

**P. aesopus** Csy. Adirondack Mts. (Csy).

1511 **P. stygicus** Lec. Keene Val.; Ausable Lakes; Mountain View; Mt. Marcy; Whiteface Mt.; Jl-Oct; (all Not).

1513 **P. decens** Say. Mt. Marcy, Whiteface Mt., N. Elba, Keene Val., Upper Ausable L., Mountain View, Waterville, Cattaraugus Co, Rock City, Windsor, Catskills, W. Hebron, Orangeburg, Whitehall, Ap-Oct (Not); Rochester (M&W); Olcott, Ap (Dt); Pike, Oct (NYS); Batavia, Sep, *Kngt* (Not); Renwick, Ap, Ithaca, Sep (Vdyk); Schenectady, Dec (Dt); Haines Falls (Vdyk CU); Bronx Pk. (AM); Palsades-on-Hudson, Ap, Van Cort. Pk. (Woodr, Not AM); Bronxville, Ap (Woodr); **SI**, Ap-Oct (Not); **LI**: Flatbush, Ap, Nov, *Zab* (Not); Parkville, (Not AM); Jamaica, Mar, Queens, Nov, *Nic* (Not); Hauppauge, Ap, *Nic* (Not); Wyandanch, Jl, Long Pond, Wading R., Je, *Ds* (Not).

1514 **P. sinuatus** Dej. Generally distributed and common throughout the State.

1516 **P. opaculus** Lec. Keene Val., Je (Not); NYC (Schaupp); Van Cort. Pk., May (Not AM); **LI**: Rockaway, May (Woodr).

1517 **P. tenuicollis** Lec. Manlius, May, *SmHH* (Vdyk); NYC (Lg).

1518 **P. cincticollis** Say. Keene Hgts., John's Br., Mooers, Lowville, Port Kent, Ausable Pt., Sodus Pt., Westfield, Schoharie, Ft. Montgomery, May-Sep (Not); Rochester (M&W); Pike, Je (NYS); Inlet Val., Ithaca, May (Not); Renwick, Ap, *Dt* (Vdyk); Canisteo, Je (Not); NYC (Not, Lg); **SI**, *Shoe*, *Ds* (AM); **LI**: Brooklyn, Rockaway Beach, Ap-Oct, *Shoe* (Not); Forest Pk., *Nic* (Not); Jamaica, Mar, *Nic* (Not); Far Rockaway, May (Woodr); Wading R., May, *Ds* (Not).

1519 **P. reflexus** Lec. Upper Ausable L., Mountain View, Cape Vincent, Keene Hgts., Mooers, Waterville, Ausable Pt., Lowville, Tivoli, Westfield, Catskills, Windsor, May-Sep (Not); Syracuse, Ap-May (H); Rochester (M&W); Montour Falls (H); Buffalo (Dnd); Ithaca, Renwick, May-Nov, *Dt* (Vdyk); Taughannock, Ap, *Snn* (Vdyk); McLean Bogs, Je, *Dt* (Vdyk); Eggleston's Glen, Je, Peekskill, May (Vdyk CU); Albany, May (AM); L. George, Aug, *Zab* (Not); West Pt. (Robn); **SI**, Ap (Not, Lg); **LI**: Newtown Hgts., May (Not AM); Rockaway, Aug, Flatbush, Je, Oct, *Zab* (Not); Jamaica, *Nic* (Not); Far Rockaway, May (Woodr); Rockaway Beach, May-Je, Wading R., Aug, *Ds* (Not).

1520 **P. parmargatus** Ham. Pike, Mar (NYS); **LI**: Orient, *Lath* (NYS).

1521 **P. brunneomarginatus** Mann. Buffalo (Z&R). A well-known Calif. sp. (Lg).

1522 **P. extensicollis** Say. Generally distributed and common throughout the State.

1522b **P. extensicollis** var. *viridis* Lec. Buffalo (Z&R).

— **P. gaudens** Csy. (*Anchomenus*). L. Champlain (Csy).

1523 **P. decorus** Say. Crown Pt., Oakfield, Nichols, May-Aug (Not); L. Onondaga (Lint); Syracuse, Ap-May, Oct (H); Rochester (M&W); Olcott, Ap, Jl (Dt); Six Mile Cr., Ap (Not); McLean Bogs, Jl-Aug,



- Hamilton*, *Dt* (Vdyk); Inlet Val., Sep, *Dt* (Vdyk); Ithaca, *Jl* (Vdyk CU); Peekskill (Vdyk CU); West Pt. (Robn); White Plains, Aug (Sq); NYC, May (Woodr); **SI**: May (Woodr, Ds); New Brighton, Aug (Ds); **LI**: Rockaway Beach (Vdyk CU); Brooklyn, Ap, *Jl*, *Shoe* (AM); Cypress Hills, Aug (AM); Queens, Ap, Bellport, *Jl*, *Nic* (Not); E. New York, Je (Ds).
- **P. decorus** ab. *syracusensis* Hatch (*Anchomenus*). Syracuse, Ap, Oct (H).
- 1529 **P. anchomenoides** Rand. Keene Val., Ausable Lakes, Waterville, Red House, Nichols, Canisteo, Windsor, Schoharie, May-Je (Not); Rochester (M&W); Niagara, Buffalo (Dnd); Ithaca, Je, *Hamilton* (Vdyk); Inlet Val., *Jl*, Renwick, Ap, *Dt* (Vdyk CU); NYC (Rand ANSP).
- 1537 **P. errans** Say. Manlius, Ap, *SmHH* (Vdyk).
- 1537a **P. errans** Say var. *subcordatus* Lec. Rochester (M&W).
- 1538 **P. moerens** Dej. St. Lawrence Co, *Houghton*; Oneida L., Aug (Drk); **LI** (Dej ANSP).
- 1539 **P. tenuis** Lec. N. Elba (Not,Lg); Ithaca, Aug (Vdyk CU); White Plains, May (Sq); **SI** (Not,Lg); **LI**: Rockaway Beach, Brooklyn, Ap-Nov, *Shoe*.
- **P. militaris** Csy. West Pt., *Robn* (Csy).
- 1540 **P. collaris** Say. Buffalo (Z&R).
- 1541 **P. mutatus** G. & H. (*atratus* Lec.). St. Lawrence Co, *Houghton*; Keene Val., Upper Ausable L., Windsor, Chauncey, Sloatsburg, N. Elba, Tarbel, Mar-Je (Not); Syracuse, Ap (H); Rochester (M&W); Rock City, Je (Vdyk CU); McLean Bogs, Inlet Val., Ringwood, *Jl*-Oct, *Dt* (Vdyk); Ithaca, *Jl*-Aug (Vdyk CU); Catskills, *Nic* (Not); Bronxville, Mar (Woodr); **SI**, May (Lg); **LI**: Brooklyn, May-Sep, *Shoe*; Jamaica, Bellport, Wading R., Mar-Aug, *Nic* (Not); Jamaica Bay, Ap, Ft. Hamilton, Ap (Woodr).
- 1542 **P. melanarius** Dej. Generally distributed and common throughout the State.
- 1543 **P. propinquus** G. & H. Cape Vincent, Crown Pt., Mt. Marcy, Waterville, Batavia, May-Sep (Not); Howland L., Cayuga Co (Dt).
- 1546 **P. affinis** Kby. Peru, *Jl*, *M&E* (Vdyk); St. Lawrence Co, *Houghton*; Keene Val., Indian L., Norwood, Keene Hgts., Ausable Lakes, Mt. Skylight, Lowville, Ausable Pt., Batavia, Sodus Pt., Canadice, Westfield, Nichols, Tivoli, Whitehall, May-Oct (Not); Rochester (M&W); Olcott, *Jl* (Dt); Buffalo (Z&R); E. Aurora (Dnd); Montour Falls (H); McLean Bogs, Ringwood, Inlet Val., Ithaca, Keuka Pk., Mar-Oct, *Dt* (Vdyk); Nyack, *Zab* (Not AM); Bronxville, Mar-Apr, Bronx, Ap, Van Cort. Pk., Ap (Woodr); NYC, *Schaupp* (Lg); **LI**: Babylon, Je (AM).
- 1547 **P. carbo** Lec. Pine L., Sep (Not AM); **LI**: Newtown Hgts., Ap (Not AM).
- 1548 **P. corvus** Lec. Mt. Redfield, *Jl* (Not); Van Cort. Pk., Mar (AM); NYC (*Schaupp*); **LI**: Canarsie, Ap (Not); Jamaica (Lg); E. New York, May, *Nic* (Lg); Brooklyn, Ap-Sep, *Shoe* (AM).
- 1551 **P. metallescens** Lec. Mt. Marcy, *Jl*, Keene Val., May (Not); St. Lawrence Co, *Houghton*.
- **P. fidele** Csy. Keene Val., Moss Pond, Parkers, May-Jl (Not).
- 1552 **P. deceptivus** Lec. Mt. Marcy, Mt. Redfield, *Jl* (Not).

- 1553 *P. cupripennis* Say. Castile, Ap, May, *Brad* (Flet); generally distributed and common throughout the State.
- 1555 *P. excavatus* Dej. Lowville, Keene Val., Waterville, Canadice, Oakfield, Sodus Pt., Canisteo, Sylvan Beach, Red House, Nichols, Tarbel, Ft. Hunter, Orangeburg, Van Cort. Pk., Ap-Je (Not); Rochester (M&W); Olcott, May, Jl (Dt); Ithaca, Jl-Aug, *Hamilton* (Vdyk); Butternut Cr., Je, *Dt* (Vdyk); McLean Bogs, May, Jl (Dt); Hudson Falls, Aug (Vdyk CU); West Pt. (Robn); Suffern (AM); NYC (Schaupp); **SI** (L&D); **LI**: Rockaway Beach, Brooklyn, May-Je, *Shoe*.
- 1556 *P. ferreus* Hald. Ithaca, Je, *Dt* (Vdyk CU); Tivoli, May (Not); Orangeburg, Ap (Not); Nyack, *Zab* (Not); Bronxville, Ap (Woodr); Peekskill, Ap (Vdyk CU); West Pt. (Robn); Mosholu, Sep, Bronx Pk., Van Cort. Pk. (AM); **SI**: Mar-Je, *Nic* (Not); Clove Val., Mar (Lg); **LI**: Brooklyn, May, Nov, *Shoe*; Flatbush, Ap (Not AM); Jamaica, May, *Nic* (Not); Forest Pk., May (Vdyk CU).
- 1557 *P. basalis* Lec. "NY" (Lint,Csy).
- 1558 *P. nutans* Say. Waterville, Je (Not); St. Lawrence Co, *Houghton*; Olcott, Ap, Je (Dt); Buffalo (Z&R); E. Aurora, Cortland Co (Dnd); Westfield, May (Not); Ithaca, Je, Ringwood, Jl, Turkey Hill, Je-Nov, *Dt* (Vdyk); West Pt. (Robn); NYC, Bronx, Bronxville, Mar-Jl (Woodr); **SI**, May (Lg); **LI**: Rockaway Beach, May, *Nic* (Not); Brooklyn, Ap, Far Rockaway, Ap-May (Woodr).
- 1561 ?*P. maculicollis* Dej. Buffalo (Z&R). Known from Kans. and Calif. (Lg).
- 1562 ?*P. variolatus* Lec. Buffalo (Z&R). Known from southern Calif. (Lg).
- 1566 *P. octopunctatus* Fab. Axton, Je (M&H); Mt. Skylight, Wallface Mt., Keene Val., Sylvan Beach, Nichols, May-Jl (Not); Newport, Je, Aug (NYS); St. Lawrence Co, *Houghton*; Rochester (M&W); Olcott, Feb (Dt); Buffalo (Z&R); Pike, Je (NYS); E. Aurora (Dnd); Ithaca, Sep (Dt); McLean, Jl, *Dt* (Vdyk); Albany, Je, Nassau, Aug (NYS); White Plains (Sq); Nyack, *Zab* (Not); High Bridge (AM); Van Cort. Pk. (AM); Bronx, Ap (Woodr); Peekskill, Sep, NYC (Lg); **SI** (Lg); **LI**: Brooklyn, May, *Shoe* (AM); Jamaica, Ap, *Nic* (Not); Babylon, Jl (AM); Flatbush, Ap, *Zab* (AM); Bergen Beach, Ap-May (Not AM); Forest Lawn, Jl, *Zab* (Not); Rockaway Beach (div.).
- 1567 *P. placidus* Say. Peru, Jl, *M&E* (Vdyk); Ausable Pt., Port Kent, Sep (Not); Wilmington, Je (Ds); Syracuse, Ap-May (Vdyk,H); Rochester Jct., Je, *Leon* (Vdyk); Sodus Pt., May (Not); western NY, common (Dnd); Olcott, Mar, Jl, Oct (Dt); Batavia, May-Jl, *Kngr* (Not); Castile, *Brad* (Flet); Geneva, Nov (Vdyk CU); Cattaraugus Co, Jl (Ds); Ithaca, Coy Glen, Renwick, Taughannock Gorge, Ap-Sep, *Dt* (Vdyk); Whitehall, Oct (Not); Peekskill (Vdyk CU); West Pt. (Robn); Bronxville, NYC, Je-Jl (Woodr); Bronx, **SI**, Mar-Je (Woodr); **LI**: Jamaica, E. New York, Port Washington, Mar-Sep, *Nic* (Not); Far Rockaway, Lawrence, Ft. Hamilton, Ap-Je (Woodr); Orient, *Lath* (NotNYS); Flushing, Ap, *Kngr* (Not).
- 1573 *P. bogemanni* Gyll. Keene Val., Mt. Whiteface, Lowville, Je-Aug (Not); St. Lawrence Co, *Houghton*; Saranac Inn, Je (Woodr); Gloversville, Ap (NYS); Rochester (M&W); Buffalo (Z&R); Ithaca, May-Aug (div.); Karner, Mar, *Bish* (Dt); Pine I., Je, *Ds* (Not); West Pt. (Robn); NYC, Van Cort. Pk., Je, *Nic* (Not); **SI**: May (div. NYS); Tottenville, Je, *Ds* (Not); **LI**: Babylon, Je-Jl (AM); Flatbush (Not AM); Bellport, Jamaica, May-Je (Not); Rockaway Beach, Wyandanch, Half Way Hollow Hills, Je-Jl, *Ds* (Not).

- 1574 **P. quadripunctatus** Dej. Keene Val., Wallface Mt., Jl, Oct (Not); Mt. Marcy, May (Not,Lg); Mt. Whiteface, Sep (div.); N. Elba, Oct (Lg); St. Lawrence Co, *Houghton*; Buffalo (Z&R); Green Mt., Jl (Not).
- 1577 **P. aeruginosus** Dej. Ausable Pt., Sep, Westfield, May (Not); Catskills, Jl, *Pears* (Nic); Orangeburg, Ap (Not); West Pt. (Robn); Mosholu, Bronx Pk. (AM); Bronxville, Je (Woodr); NYC (div.); **SI**, *Nic* (Not); **LI**: Brooklyn, May-Je, *Shoe*; Bellport, Rockaway Beach, May-Jl, *Nic* (Not); E. New York, May, Flushing, Aug, *Ds* (Not).
- 1579 **P. crenistriatus** Lec. Cape Vincent, Sep (Not); Rochester (M&W); Buffalo (Lec-ANSP); Pike, Aug (NYS); Batavia, Jl, *Kngt* (Not); Ithaca, Jl, *Dt* (Vdyk); Junius, Aug, *Dt* (Vdyk); Catskills, *Nic* (Not); Peekskill (Vdyk CU); Westchester Co, Sep (Lg); Bronxville, Ap (Woodr); **SI**: Nov-Dec (Lg); Tottenville, Sep, *Ds* (Not); **LI**: Rockaway Beach, Je-Jl (div.); Long Beach (AM); Sheepshead Bay, Aug, Long Beach, Forest Lawn, Jl (Not); Bergen L., Forest Lawn, Jl, *Zab* (Not).
- 1580 **P. rubripes** Lec. St. Lawrence Co, *Houghton*; Ithaca, Ap (Vdyk CU); Inlet Val., May, Oct, *Dt* (Vdyk); Unadilla, Sep, *Nic* (Not AM); Bronxville, Mar (Woodr); NYC (Schaupp,Lg); **SI**, Feb-Dec (Lg); **LI**: Far Rockaway, Jl-Sep (Woodr).
- 1581 **P. punctiformis** Say. Erie Co (Dnd); Rochester (M&W); Ithaca, Jl, *Hamilton* (Vdyk); Hebron (Lg); Peekskill (Vdyk CU); Nyack, *Zab* (Not); Tarrytown (AM); Van Cort. Pk., *Bradford* (AM); NYC, Sep (Woodr); **SI**, Feb-Dec (Lg); **LI**: Jamaica, May, *Nic* (Not); Jamaica Bay, Ap (Woodr); E. New York, May (Not,Ds); Brooklyn, May, *Ds* (Not).
- **P. politissima** Csy. subsp. *statenensis* Csy. **SI**, type locality.
- 1582 **P. sordens** Kby. L. Tear, Keene Val., Keene Hgts., Mt. Whiteface, and Wilmington, May-Jl (Not); Rock City, Je (Vdyk CU).
- 1584 **P. ruficornis** Lec. Mountain View, Cape Vincent, Keene Val., N. Elba, Waterville, Sodus Pt., Batavia, Canadice, May-Oct (Not); Wilmington and base of Mt. Whiteface, Aug, *Dt* (Vdyk); St. Lawrence Co, *Houghton*; Rochester (M&W); Olcott, Jl (Dt); Buffalo (Z&R); Howland L., Nov (Vdyk CU); McLean, Ap, *Kngt* (Not); Renwick, Inlet Val., Taughannock Gorge, Ithaca, Ringwood, Jl-Nov, *Dt* (Vdyk); Unadilla, Sep, *Nic* (Not); Karner, Mar, *Bish* (Dt); Catskills, *Nic* (Not); West Pt (Robn); NYC (Schaupp); Bronx, Ap (Woodr); **LI**: Brooklyn, Ap-May, Nov, *Shoe*; Richmond Hill (AM); Flatbush, Ap (Not AM); E. New York, Wading R., May, *Nic* (Not); Flushing, Mar, Rosedale, Ap (Not); Orient, *Lath* (NYS).
- 1587 **P. elongatulus** Hald. Keene Hgts., Keene Val., Upper Ausable L., Ausable Forks, N. Elba, Mt. Hopkins, Batavia, Catskills, Big Ind. Val., Parkers, May-Oct (Not); St. Lawrence, *Houghton*; Pike, Ap (NYS); Ithaca, Renwick, Ap-Nov, *Dt* (Vdyk); Buttermilk Cr., Mar (Vdyk CU); Peekskill (Vdyk CU); NYC (Schaupp); **SI** (I&D); **LI**: Brooklyn, May, *Shoe*; Flatbush, Sep, *Zab* (Not); Jamaica Bay, Ap (Woodr); Wyandanch, Jl, Pinelawn, Mar, *Ds* (Not).
- 1585 **P. retractus** Lec. Adirondacks, *Houghton*; Sodus Pt., May (Not).
- 1586 **P. gemellus** Lec. Ithaca, Mar-Aug, *Hamilton*, *Dt* (Vdyk CU).
- 1587 **P. picipennis** Kby. Syracuse, Ap, Je (H); Cape Vincent, Tivoli, Canadice, Westfield, Canisteo, Windsor, Orangeburg, Ap-Sep (Not); Glovers-

ville, Mar (NYS); Rochester (M&W); Buffalo (Z&R); E. Aurora (Dnd); Batavia, Je (Lg); Ithaca, Ap (Not); Bronx Pk., West Farms (AM); Van Cort. Pk., Tarrytown, *Bradford* (AM); NYC (Not,Lg); **SI**, Je (Woodr,Lg); **LI**: Brooklyn, May, Nov, *Shoe*; Far Rockaway, May, Ft. Hamilton, Ap (Woodr); Canarsie, Ap, E. New York, Je (Not); Flushing, Mar (Not).

- 1588 **P. lutulentus** Lec. St. Lawrence Co, *Houghton*; Sodus Pt., May (Not); Batavia, Jl, *Kngt* (Not); Buffalo (Z&R); Westfield, May (Not); Renwick, Ithaca, Inlet Val., Mar-Oct, *Dt* (Vdyk); Peekskill, Jl (VdykCU); **LI**: Brooklyn, Ap-May, *Shoe* (NotAM); Babylon, Je (AM); Bellport, Je (Not); Jamaica Bay, Ft. Hamilton, Ap (Woodr); Canarsie, E. New York, Ap-May (Not).

- 1589 **P. nigriceps** Lec. "NY", *Rein* (L&B).

- 1591 **P. quadrimaculatus** Horn. Northwestern NY, *Hamilton* (L&B).

- 1592 **P. obscurus** Hbst. Adirondacks, *Houghton*; L. Onondaga (Lec); Syracuse, Ap, Oct (H); Canastota, March (Not); Genesee Co, Je (Ds); Batavia, Je (Lg,Ds); Oakfield, Je (Not); Buffalo (Z&R, Lec); E. Aurora (Dnd); Pike (AM); Red House, Je (Not); Howland I., Nov (Vdyk); Ithaca, Mar-Apr, Nov, *Hamilton*, *Dt* (Vdyk); Renwick, Mar-Apr, Nov, *Dt* (Vdyk); W. Hebron (Woodr,Lg); Whitehall, Oct (Not); West Farms (AM); **SI** (Lg); **LI**: Orient, *Lath* (NYS).

#### OLISTHOPUS Dejean

- 1595 **O. parmatius** Say. Keene Val., Whiteface Mt., Sodus Pt., May-Jl (Not); Rochester (M&W); Olcott, Sep (Dt); E. Aurora, Allegany Pk. (Dnd); Spencer, Oct, *Dt* (Vdyk); Howland I. (VdykCU); NYC (Lg); Bronxville, Nov (Woodr); **LI**: Rockaway Beach, Mar-May, *Shoe,Nic* (Not); Far Rockaway, May (Woodr).
- 1596 **O. micans** Lec. Buffalo (Z&R); West Pt., Je, *Ds* (Not); NYC (LecANSP); **LI**: Rockaway Beach, Je, *Shoe*.

#### ATRANUS LeConte

- 1609 **A. pubescens** Dej. Rochester (M&W); Buffalo (Z&R); Westfield, May (Not); Howland I., Je, *Dt* (Vdyk); Taughannock Gorge, May, Aug, *Hamilton* (Vdyk); Ithaca, Jl-Sep, *Dt* (Vdyk); Canisteo, Je (Not); Peekskill (VdykCU); West Pt (Robn); **LI**: Rockaway Beach, Ap, *Shoe*; Brooklyn, May, *Shoe*.

#### LEPTOTRACHELUS Latreille

- 1610 **L. dorsalis** Fab. NYC (LgAM); **SI** (Lg); **LI**: (Schaupp); Brooklyn, *Shoe* (Ds).

#### CASNONIA Latreille

- 1612 **C. pennsylvanica** L. Rochester (M&W); Olcott, Ap (Dt); Buffalo (Z&R); Pike, Je (NYS); Ithaca, Je-Sep (VdykCU); Albany, Je, Nassau and Poughkeepsie, May (NYS); Catskills, *Nic* (Not); Callicoon, Jl, *Ds* (Not); Florida, Je, *FrostSW* (Vdyk); Peekskill, Ap (VdykCU,Lg); West Pt. (Robn); White Plains (Sq); **SI**: May-Sep (div.); Tottenville, May, *Ds* (Not); **LI**: Rockaway Beach, May-Je (div.); Brooklyn, Ap-Je, *Shoe* (AM); Flatbush, Aug-Oct, *Zab* (AM);



Prospect Pk., Feb, Queens (AM); Jamaica, May, *Nic* (Not); Half Way Hollow Hills, Jl, *Ds* (Not); E. New York, Je, Long Beach, Jl (*Ds*).

#### GALERITA Fabricius

- 1616 **G. janus** Fab. Newport, May (NYS); Pulaski, Je (Not); Syracuse, Ap (VdykCU); Rochester (M&W); Olcott, Ap (Dt); Buffalo (Z&R); western NY (Dnd); Rock City, Windsor, Je (Not); Ithaca, Caroline, Ringwood, Ap-Sep, *Dt* (Vdyk); Six Mile Cr., Ap (Not); Spencer, Nov (VdykCU,NYS); Karner, May, *Hill* (NYS); West Pt. (Robn); Carmel, West Farms (AM); White Plains, Mar (Sq); NYC, Bronxville, Van Cort. Pk., Aug-Sep (Woodr); **SI**: *Nic* (Not, *Ds*); Clove Val., Ap (Not,Lg); **LI**: Rockaway Beach, May-Je, *Shoe*; Parkville (AM); Jamaica, Bellport, Je-Aug, *Nic* (Not); Yaphank, Jl (Woodr,Not,Ds); Cold Sp., May (Not,Ds); Orient, May, *Lath* (Not).
- 1620 **G. bicolor** Drury. Ausable Pt., Sep (Not); Sodus Pt., Je (Not); western NY (Dnd); Ithaca, Ap-Sep, *Dt* (Vdyk); Whitehall, Oct (Not); Windsor, May (Not); NYC (Lg); **SI**: May-Sep (*Ds*); Clove Val., Jl (Not,Ds); **LI**: Bellport, Jl-Aug, *Nic* (Not); Farmingdale, Mar, Wading R., May (Not); Yaphank, Oct, *Ds* (Not).

#### TETRAGONODERUS Dejean

- 1636 **T. fasciatus** Hald. Buffalo (Z&R); Sylvan Beach, Je (Not); **LI**: Aqueduct, Mar, *Shoe*; Jamaica, May, Rockaway Beach, Sep, *Nic* (Not).

#### LEBIA Latreille

- 1641 **L. grandis** Hentz. Newport, Je, Lewis Co, Aug (NYS); Keene Val., (Not); Syracuse, Ap (H); Rochester (M&W); Olcott, Je, Sep-Oct (Dt); Buffalo (Z&R); E. Aurora (Dnd); Ithaca, Mar-Jl, *Dt* (Vdyk); Peekskill (VdykCU); Port Jervis, Oct (Lint); West Pt. (Robn); White Plains, Mar (Sq); Nyack, Je (Not,Lg); Van Cort. Pk., Je (NotAM); Inwood, Feb, Westchester Co, Ap, Bronxville, Sep (Woodr); NYC (Ds,Lg); **SI**: (Ds,Lg); Watchogue, Aug (Ds); **LI**: Brooklyn, May-Je, Sep-Nov, *Shoe* (AM); Parkville, Long Beach (AM); Jamaica (NYS); Flatbush, Ap-Oct, *Zab* (AM); Bergen Beach, Ap-May, Oct (AM); Queens, Port Washington, Bellport, Mar-Nov, *Nic* (Not); Far Rockaway, May, E. Hampton, Jl (Woodr); Rockaway Beach, Aqueduct, Flushing, Je-Aug, Maspeth, Orient, May-Aug, *Ds* (Not).
- **L. enormis** Csy. NYC (Csy).
- 1642 **L. atriventris** Say. Cranberry L., Sep (Drk); Wilmington, Pulaski, Waterville, Westfield, Windsor, Tivoli, May-Jl (Not); Rochester (M&W); White L., Aug, *Zab* (AM); Olcott, Mar, Je (Dt); Buffalo (Z&R); E. Aurora (Dnd); Castile, *Brad* (Flet); Ithaca, Mar-Sep, *Dt* (Vdyk); Albany, Poughkeepsie, Je (NYS); W. Hebron (Lg); Catskill (Lg); Esopus (Vdyk,Dt); West Pt. (Robn); Florida, Jl, *FrostSW* (VdykNYS); White Plains, May (Sq); Westchester Co, Ap, Bronxville, Aug-Sep (Woodr); West Farms (AM); Goshen, Sep (NotAM); Van Cort. Pk., Dec-Feb, *Nic* (Not); NYC, Je-Aug (Woodr); **SI** (div.); **LI**: Rockaway Beach (div.); Brooklyn, May, Oct, *Shoe*; Manhattan Beach, Coney I., Flatbush, Je-Sep, *Zab* (AM); Bergen Beach, Jamaica, Mar-May, *Nic* (Not); Yaphank, Je (Not).



- 1643 *L. tricolor* Say. Keene Val., May-Je (Not); Wilmington, Jl, *Ds* (Not); Axton, Je (M&H); St. Lawrence Co, *Houghton*; Canisteo, Je (Not); Olcott, Ap (Dt); Buffalo (VdykCU); Ulster Co, *Shoe*; Van Cort. Pk., Ap (Woodr); West Pt. (Robn); **SI** (Ds); **LI**: Rockaway Beach, Brooklyn, May, Sep, *Shoe*.
- 1646 *L. atriceps* Lec. Mosholu, Aug (NYS).
- 1649 *L. pulchella* Dej. Peekskill, Ap, Oct (div.); Morrisania, *Julich* (Schaupp); NYC (Woodr, LgAM); **SI**, Ap (Lg); Silver L., Ap (Ds); **LI**: Yaphank, May-Sep, *Shoe*; Bellport, Rockaway, May, Sep, *Nic* (Not); Amagansett, Sep (Ds).
- 1654 *L. marginicollis* Dej. **LI**: Flatbush (Ent. News, 1909).
- 1655 *L. viridis* Say. Generally distributed and common throughout the State.
- 1655b *L. viridis* Say var. *moesta* Lec. Buffalo (NYS,AM).
- 1656 *L. cyanea* Dej. "NY" (NYS).
- 1658 *L. pumila* Dej. Adirondacks, *Houghton* (NYS); Essex Co, Aug (NYS); Saranac L., Sep, *Shoe*; White L., Sep, *Zab* (AM); Ausable Forks, Mt. Marcy, Keene Val., Mt. Whiteface, Sodus Pt., Port Kent, Bronx Pk., Crugers, Carmel, Je-Sep (Not); Rochester (M&W); Buffalo (Z&R); Pike (NYS); E. Aurora (Dnd); Rock City, Je (Not); L. George, Aug, *Zab* (AM); Washington Co (Lg,Ds); West Pt. (Robn); Greenville; Van Cort. Pk. (NotAM); **SI** (Lg); **LI**: Yaphank, Wyandanch, Bellport, May (Not).
- 1659 *L. pleuritica* Lec. Buffalo (Z&R); West Pt. (Robn); White Plains, Mar (Sq); Westchester Co, May (AM); Van Cort. Pk., Dec, *Nic* (Not); **SI**, Ap (L&D); **LI**: Flatbush; Brooklyn, Ap-Sep, *Shoe*; Jamaica, Queens, Central Pk., Aug-Nov, *Nic* (Not); Massapequa, Rockaway Beach, May-Je (Woodr); Nassau Co, May-Je, Orient, Je (Not,Ds).
- 1664 *L. viridipennis* Dej. Rochester (M&W); Buffalo (Z&R); Peekskill (div.); **LI**: Jamaica woods, Mar, Oct-Nov (Schaupp); Aqueduct, Aug-Sep, *Shoe*; Bergen Beach, Je (NotAM); Jamaica, *Nic* (Not); Fire I., Sep, *Ds* (Not).
- 1666 *L. lobulata* Lec. West Pt., Je, *Ds* (Not); Peekskill, Je (Lg).
- 1667 *L. ornata* Say. Keene Val., Aug-Sep (Not); Newport, Je (NYS); Wilmington, Jl, *Ds* (Not); Mt. Whiteface, Sep (Lg); White L., Aug-Sep, *Zab* (AM); Buffalo (Z&R); Pike, Je (NYS); western NY, scarce, but generally distributed (Dnd); Rock City, Je (Not, Ds); Castile, May, *Brad* (Flet); Ithaca, May-Sep, *Dt* (Vdyk); L. George, Aug, *Zab* (AM); Seneca and Howland I., Je-Nov (Vdyk); Karner, Je (NYS); Windsor, May, and Debruce, Sep (Not); Catskills, *Nic* (Not); New Baltimore, *Zab* (AM); Ramapo Mts., Suffern (AM); Greenville (Schaupp); Van Cort. Pk., *Nic* (Not); Bronxville, Sep (Woodr); NYC (Lg); **SI**: Sep (AM); Watchogue (Ds); Richmond, Je (Woodr); **LI**: Riverhead, Sep (VdykCU); Yaphank, Rockaway, Je, Sep, *Shoe* (AM); Flatbush, Sep, Fishers I., Aug, *Zab* (AM); Jamaica, *Nic* (Not); Bellport, Aug, *Nic* (Not); Orient, *Lath* (NYS); Amagansett, Montauk, Sep (Ds).
- *L. reperta* Csy. "NY" (Csy).
- 1669 *L. collaris* Dej. "NY" (Lec).
- 1671 *L. analis* Dej. Batavia, Je (Ds); Poughkeepsie, May (NYS); Callicoon, Jl (Ds); Florida, Jl, *FrostSW* (Vdyk); White Plains (Frost,Sq); NYC (Lg); Van Cort. Pk., *Nic* (Not); West Farms (AM); **LI**: Jamaica (Schaupp); Westbury, Aug (Champlain); Bellport, Aug, *Nic* (Not); Flushing, Mar (Not).

- 1672 **L. fuscata** Dej. Generally distributed and common throughout the State.  
 — **L. esurialis** Csy. Catskills, *Pears* (Sf).  
 1675 **L. scapularis** Dej. Manlius, Aug, *SmHH* (VdykNYS); Oneida L., Aug (Drk); Sylvan Beach, Je (Not); Oswego, Jl; Rochester (M&W); Buffalo (Z&R); Ithaca, Aug (VdykCU); Tivoli, May (Not); NYC, Ap (LgAM); **SI**, Je, Aug (Lg); **LI**: Jamaica woods, Mar, Oct-Nov (Schaupp); Jamaica, *Nic* (Not); Rockaway Beach, May-Je, *Shoe*; Long Beach (AM); Forest Hills, Jan (Woodr).  
 1677 **L. furcata** Lec. Keene Val., Sep, *Ds* (Not); Long L., Aug, Gloversville, Je (NYS); Rochester (M&W); Catskills, *Nic* (Not); **LI**: Quogue, *Zab* (Not); Bellport, Aug, *Nic* (Not); Selden, Aug, Wading R., Je, Rockaway Beach, May, *Ds* (Not); Yaphank, Jl, *Ds*.  
 1681 **L. vittata** Fab. "NY" (L&B); Peekskill (VdykCU).  
 1681b **L. vittata** var. *conjungens* Lec. "NY" (Lec).  
 1682 **L. pectita** Horn. Shokan (Lg); West Farms (AM); Van Cort. Pk., *Nic* (Not); **SI** (div.); **LI**: Yaphank, May, Sep, *Shoe*; Richmond Hill, Jamaica, Bellport, Jl-Aug, *Nic* (Not); Rockaway Beach, May, *Ds* (Not).  
 1686 **L. bivittata** Fab. Peekskill (VdykCU); **LI**: Rockaway Beach, Yaphank, May-Je, Oct, *Shoe*; Jamaica, *Nic* (Not).

## COPTODERA Dejean

- 1688 **C. aerata** Dej. **SI**, Je (Lg).

## DROMIUS Bonelli

- 1691 **D. piceus** Dej. Keene Val., May-Aug (Not); Olcott, Je (Dt); Buffalo (Z&R,Lg); E. Aurora (Dnd); Penn Yan, Mar, *Cy* (Vdyk); Ithaca, Fall Cr., Feb, Nov (Vdyk); White Plains, Mar, *Ol*s (Not); Mosholu, Je (AM); Van Cort. Pk., Nov (Woodr); NYC (Lg); **SI** (Lg); **LI**: Wyandanch, Cold Sp., Yaphank, Pine Lawn, Promised Land, May-Sep, *Ds* (Not); Rockaway Beach, Sep (Woodr); Huntington, Dec (Not).  
 1692 **D. atriceps** Lec. **LI**: Rockaway Beach (Dietz).

## APRISTUS Chaudoir

- 1693 **A. cordicollis** Lec. Newport, May (NYS); Lowville, Sodus Pt., Canadice, Westfield, Nichols, Windsor, Tivoli, Ft. Hunter, Catskills, May-Je (Not); Rochester; Pike, May, Oct (NYS); Norton's, May (VdykCU); Taughannock Gorge, Jl-Aug, Ithaca, May (Vdyk,Lg); **SI**, May, *Shoe* (Lg); **LI**: Rockaway Beach (VdykCU).  
 1694 **A. subsulcatus** Dej. Sodus Pt., Canadice, Mayville, Canisteo, Westfield, Nichols, May-Je (Not); Rochester (M&W); Peekskill (VdykCU); West Pt. (Robn); **SI**: Je-Aug (L&D); south shore, Aug (Lg); **LI**: Peconic Bay, Aug, *Nic* (Not); Southold, Sep, Shelter I., Aug, *Ds* (Not).

## BLECHRUS Motschulsky

- 1696 **B. glabratus** Duft. St. Lawrence Co, *Houghton*; Mt. Whiteface, Aug (VdykCU); Olcott, Je, Sep (Dt); Canastota, Mar (Not); Oakfield, Je (Not); Ithaca, Ap (VdykCU); Catskills, *Nic* (Not); West Pt. (Robn); **LI**: Rockaway Beach, May, *Shoe* (Not,Ds).  
 1698 **B. pusio** Lec. **LI**: Jamaica, *Nic* (Not).

## METABLETUS Schmidt-Goebel

- 1699 **M. americanus** Dej. Keene Val., Keene Hgts., Mt. Marcy, Upper Ausable L., Mt. Haystack, Mt. Whiteface, Waterville, May-Sep (Not); Rochester (M&W); N. Elba, Oct (Lg); St. Lawrence Co, *Houghton*; E. Concord (Dnd); Olcott, Ap, Je, Sep-Oct (Dt); Buffalo (Z&R); Ithaca, Je-Aug, *Hamilton*, Fall Cr. Val., Nov, *Dt* (Vdyk); Karner, Mar (NYS); Catskills, *Nic* (Not); Peekskill (VdykCU); West Pt. (Robn); W. Hebron, NYC (Lg); **SI** (L&D); **LI**: Bellport, Je, Aug, *Nic* (Not); Yaphank, Je, *Ds* (Not); Wyandanch, Oct (Not).

## AXINOPALPUS LeConte

- 1700 **A. biplagiatus** Dej. St. Lawrence Co, *Houghton*; Keene Val., May, Lowville, Je (Not); Olcott, Aug (Dt); Peekskill (VdykCU); NYC (Schaupp); **LI**: Central Pk., Je, *Shoe*.

## CALLEIDA Dejean

- 1707 **C. viridipennis** Say. Buffalo (Z&R, Say).  
 1710 **C. punctata** Lec. Norwood, Sep (Not); St. Lawrence Co, *Houghton*; Rochester (M&W); Olcott, May (Dt); Buffalo (Z&R); Ft. Erie, Sep, *Julich* (LgAM); Hamburg, Aug (NYS); Cattaraugus, Sep (Vdyk, Dt); Gowanda (Dnd); Castile, *Brad* (Flet); Canisteo, Je (Not); Tivoli, May (Not); White Plains (Frost, Sq); Bronx Pk. (NYS); NYC, *Julich* (Lg); **SI** (Lg); **LI**: *Shoe*; Brooklyn, Sep, *Shoe*.  
 1712 **C. purpurea** Say. **LI**: Jamaica woods, Je (Schaupp); Yaphank, May, Sep, *Shoe*; Babylon, Je (AM); Hempstead Bay, Aug (Not); Bellport, Ap, *Nic* (Not); Central Pk., May (div.); Fire I., Sep, Promised Land, Je, Riverhead, Aug, *Ds* (Not); Pinelawn, Sep (Ds); Hicksville (Champlain).

## PHILOPHUGA Motschulsky

- **P. obscura** Csy. NY, type locality.

## PLOCHIONUS Dejean

- 1723 **P. timidus** Hald. Buffalo (Z&R); NYC (Schaupp); **SI**, Je, *Pears* (Nic, Lg); **LI**: Jamaica, *Pears* (Nic); Brooklyn, Jl, *Shoe* (AM).

## PINACODERA Schaum

- 1725 **P. limbata** Dej. Rochester (M&W); White L., Jl, *Zab* (AM); Buffalo (Z&R); Coy Glen, Aug, Inlet Val., Sep, *Dt* (Vdyk); Ithaca, Aug (VdykCU); Peekskill (VdykCU); West Pt. (Robn); Ramapo, Ap, *Ds*; Carmel, Aug (AM); NYC (Lg); **SI**, May-Je (div.); **LI**: Coney I., Je (Schaupp); Orient, May (NYS); Brooklyn, Rockaway Beach, May-Sep, *Shoe*; Babylon, Long Beach, Flatbush, May-Je (AM); Jamaica, Ap, Bellport, Jl, Belle Terre, Je, *Nic* (Not); Far Rockaway, Yaphank, May-Aug (Woodr); Wading R., May, *Ds* (Not).  
 1726 **P. platicollis** Say. Rochester (M&W); Ithaca, Mar-Apr, *Dt* (VdykCU); W. Hebron, Je (Lg); West Pt., Je, *Ds* (Not); Peekskill (VdykCU); Bronxville, Ap (Woodr); NYC (Lg); Arlington, Ap (Woodr);

**SI**, Oct (L&D); **LI**: Rockaway Beach, Je (VdykCU); Jamaica, Mar, Bellport, JI, *Nic* (Not); Yaphank, May (Not); West Hills, Ap, *Ds* (Not).

1726a **P. platicollis** var. *fuscata* Dej. "NY" (L&B); Bronx Pk., **SI**, Ap, *Shoe*.

#### CYMINDIS Latreille

1738 **C. cribricollis** Dej. Mt. Whiteface, *Shoe*, *Dt* (Vdyk); N. Elba (Not); Minerva, Aug (Lg); Saranac L., JI, Sep, *Shoe*; Buffalo (Z&R); Ithaca (VdykCU); Hebron (Lg).

1746 **C. pilosa** Say. Mountain View, Sep (Not); Westport, Sep, *Nic* (Not); Minerva, Aug (Lg); Gloversville, Sep (NYS); Manlius, *SmHH* (VdykCU); Buffalo (Z&R); Ithaca, JI-Aug, Dec, *Hamilton* (VdykCU); Albany, JI (NYS); Catskills, *Nic* (Not); W. Hebron (Lg); DeBruce, Sep (Not); West Farms (AM); Bronxville, Mar (Woodr); NYC (Lg); **SI**, May-Je (L&D); **LI**: Rockaway Beach, Je, *Shoe* (Sf); Bellport, Aug-Sep, *Nic* (Not).

1747 **C. borealis** Lec. Elmira (NYS); NYC (Lg); **LI**: Rockaway Beach, Je, *Shoe* (Sf).

1748 **C. neglecta** Hald. Syracuse, Ap (H); Rochester (M&W); Ithaca, Sep, *Dt* (Vdyk); Catskills, *Nic* (Not); Manlius, Feb (VdykCU); Shokan (Lg); NYC, **SI** (Lg).

1749 **C. cribrata** Lec. St. Lawrence Co, *Houghton*.

1751 **C. venator** Dej. "NY" (Lec).

1752 **C. americana** Dej. Manlius, Nov, *SmHH* (Vdyk); Rochester (M&W); Olcott, Ap (Dt); Buffalo (Z&R); E. Aurora (Dnd); Caroline, McLean, Inlet Val., Ithaca, Ap-Sep, *Dt* (Vdyk); Schenectady, Dec (Dt); Catskills, *Nic*, Big Ind. Val., Aug (Not); West Pt (Robn); Mosholu (AM); Van Cort. Pk., Mar, Bronxville, Ap (Woodr); **SI**: (Lg); Clove Val., Ap (Lg); **LI**: Brooklyn, Ap, Oct, *Shoe*; Flatbush, Ap (AM).

#### APENES LeConte

1753 **A. lucidula** Dej. NYC, JI (Woodr); **SI**, Je, *Ds* (Not); **LI**: Coney I., May-Je (Schaupp); Rockaway Beach, May, *Shoe* (SfAM); Long Beach (NotAM); Fire I. (Lg).

1756 **A. sinuata** Say. Peekskill (VdykCU); **LI**: Coney I., May-Je (Schaupp); Rockaway Beach, May-Je, *Shoe* (Sf AM); Long Beach (AM); Jamaica, Mar, *Nic* (Not); Far Rockaway, Sep (Woodr).

#### HELLUOMORPHA Laporte

1755 **H. nigripennis** Dej. **LI**: Rockaway Beach, May, *Shoe* (Sf); Bellport, Je, *Nic* (Not).

1766 **H. ferruginea** Lec. Greenville, Je, Sep (Schaupp).

1769 **H. praeusta** Dej. "NY" (NYS).

1770 **H. bicolor** Harris. "NY" (Lec); West Pt. (Robn); Nyack, May (Lg); Mosholu (L&B); Van Cort. Pk., *Nic* (Not); **LI**: Massapequa, Ap-May, *Shoe*; Yaphank, Sep (Ds).

## BRACHINUS Weber

- 1774 *B. americanus* Lec. Rochester (M&W); Pike, Je (NYS); Nassau, Oct (NYS).
- 1775 *B. janthinipennis* Dej. L. Onondaga (Lint); L. George, *Nic* (Not); Inlet Val., Jl, Butternut Cr., May, *Dt* (Vdyk); Schoharie, Je (Not).
- 1776 *B. viridipennis* Dej. Unadilla, Sep, *Nic* (Not); Buffalo (Z&R); Albany, Poughkeepsie, May (NYS); NYC (Schaupp); Croton R., May (Ds); **SI**, May-Je (div.).
- 1776a *B. viridipennis* var. *perplexus* Dej. Olcott, Ap (Dt); McLean Bogs, Caroline, Ithaca, Ap-Sep, *Dt* (Vdyk); **LI**: Orient, *Lath* (NYS).
- 1777 *B. pulchellus* Blatch. Olcott, Ap-May, Oct (Dt); **LI**: Jamaica, Ap, *Nic* (Not); Flushing, Mar (Not); Orient, *Lath* (NYS).
- 1778 *B. minutus* Harris. L. Onondaga (Lec); Chautauqua (Lg); Schoharie, Je (Not); W. Hebron (Lg AM); Catskills, Jl (AM); NYC (Schaupp); **LI**: Wading R., Aug, *Ds* (Not).
- 1779 *B. medius* Harris. L. Onondaga (Lec); Rochester (M&W); Buffalo (Lg AM); Ithaca, Aug, McLean Bogs, Jl-Aug, *Dt* (Vdyk); W. Hebron (Lg); West Pt. (Robn); **SI** (Lg); **LI** (Lg).
- 1780 *B. quadripennis* Dej. NYC, *Schaupp* (L&B); Westfield, May (Not).
- 1782 *B. conformis* Dej. Buffalo (Z&R, Dej ANSP); Pike, May (NYS); White Plains, Aug (Sq).
- 1783 *B. cyanipennis* Say. Olcott, Ap, Jl (Dt); Batavia, Je (L&D); Genesee Co, Je (Ds); Buffalo (Z&R); McLean Bogs, Ringwood, Ithaca, Caroline, Ap-Aug, *Dt* (Vdyk); Schoharie, Je (Not); NYC (Schaupp).
- 1784 *B. gracilis* Blatch. Sodus Pt., Je (Not); Westfield, May (Not).
- 1786 *B. alternans* Dej. Buffalo (Z&R); West Pt. (Robn); NYC (Schaupp); **LI**: Rockaway Beach (Not AM).
- 1788 *B. ballistarius* Lec. Olcott, Ap, Sep (Dt); E. Aurora, common (Dnd); Ithaca, McLean Bogs, Taughannock Gorge, May-Sep, *Dt* (Vdyk); Windsor, May (Not); Catskills, *Nic* (Not); **LI**: Jamaica, *Nic* (Not).
- 1789 *B. fumans* Fab. Lowville, Je (Not); Olcott, Jl (Dt); E. Aurora, common (Dnd); Buffalo (Z&R); Pike, May (NYS); Batavia, Westfield, Windsor, Schoharie, May-Je (Not); Danby, McLean Bogs, Caroline, Taughannock Gorge, Ithaca, May-Sep, *Dt* (Vdyk); Karner, Jl (NYS); Croton R., May (Ds); W. Hebron (Lg); NYC, May, Jl (Woodr); **SI**, *Nic* (Not); **LI**: Brooklyn, May, *Shoe*; Flatbush, May, *Zab* (AM); Jamaica, Bellport, *Nic* (Not); Far Rockaway, May (Woodr).
- 1789a *B. fumans* var. *similis* Lec. Buffalo (Z&R).
- 1790 *B. cordicollis* Dej. Mooers, Sep, Schoharie, Je (Not); Rochester (M&W); Buffalo (Z&R); Six Mile Cr., Ap (Morr); Ithaca, McLean, Taughannock Gorge, May-Sep, *Dt* (Vdyk); Kenwood, May (NYS); West Pt. (Robn); **LI**: Jamaica, Ap (AM); E. New York, May, *Ds* (Not); Rockaway Beach, May, *Ds*, Flushing, Mar (Not).
- *B. ovipennis* Lec. Buffalo (Z&R).
- *B. rejectus* Lec. **SI**: Clove Val., May, *Ds* (Not).

## MISCODERA Eschscholtz

- 1801 *M. arctica* Payk. Keene Val., Je-Jl (Not).



## CHLAENIUS Bonelli

- 1806 **C. tomentosus** Say. Axton, Je (M&H); Severance, Je, Gloversville, Sep (NYS); Wilmington, Aug (Dt); Keene Val. (Not); Pulaski, Je, *Ds* (Not); Olcott, Je, Aug (Dt); Buffalo (Z&R); Ithaca, Je (Dt); W. Hebron, Je (Lg); Unadilla, Sep, *Nic* (Not); West Pt. (Robn); Mosholu (AM); NYC, Bronx, Ap (Woodr); **SI** (div.); **LI**: Rockaway Beach, Brooklyn, May-Je, *Shoe*; Long Beach (AM); Jamaica, Bellport, Jl, *Nic* (Not); Amagansett, Sep (Not, *Ds*); Orient, May (Not, *Ds*).
- 1808 **C. purpuricollis** Rand. **LI**: Far Rockaway, Sep (Woodr).
- 1810 **C. niger** Rand. Rochester (M&W); Ithaca, Sep (Dt); Van Cort. Pk., Bradford (AM); Manhattan, Je (AM); **LI**: Brooklyn, Ap (Woodr); Canarsie, Ap (Not); E. New York, May-Je (Not, *Ds*); Flushing, Mar (Not).
- 1814 **C. impunctifrons** Say. Essex Co, Aug (NYS); Crown Pt., Waterville, Westfield, Mayville, Canadice, Nichols, Orangeburg, Tivoli, Ap-Aug (Not); Olcott, Ap, Jl (Dt); E. Aurora, Buffalo (Dnd); Genesee Co, Je (*Ds*); Batavia, Je, Chautauqua (Lg); Bronx Pk., West Farms (AM); Van Cort. Pk., Ap (Not, Woodr); Bronx, Mar (Woodr); **SI**, Je (*Ds*); **LI**: Flatbush, Ap (Not); Brooklyn, May, *Nic* (Not).
- 1817 **C. pennsylvanicus** Say. Generally distributed and common throughout the State, Ap-Sep.
- 1819 **C. brevilabris** Lec. Lowville, Westfield, Nichols, Canisteo, Whitehall, May-Oct (Not); Syracuse, Ap (H); Batavia, Je, *Kngt* (Morr); Ithaca, Ap-May (Morr); Unadilla, Sep, *Nic* (Not); **LI** (Lec).
- 1821 **C. tricolor** Dej. Generally distributed and common throughout the State, Ap-Oct.
- 1822 **C. nemoralis** Say. Rochester (M&W); western NY, frequent (Dnd); Batavia, Je (Lg); Genesee Co, Je, *Ds* (Not); Buffalo (Z&R); Westfield, May (Not); Ithaca, Ap-Aug (div.); McLean, Caroline, Ap, Aug (Dt); Catskills, *Nic* (Not); West Pt. (Robn); West Farms, Mosholu (AM); NYC, Bronx, Mar-Aug (Woodr); **SI**, *Nic* (Not, Lg); **LI**: Brooklyn, May-Aug, *Shoe*; Long Beach (AM); Flatbush, May-Aug, *Zab* (AM); Jamaica, *Nic* (Not); Hauppauge, Ap (Not); Rockaway, Central Pk., Ap-May, *Ds* (Not); Calverton, Sep, Yaphank, Jl, *Ds* (Not).
- 1827 ?**C. vafer** Lec. Buffalo (Z&R). Described from Tex. (Lg).
- 1830 **C. solitarius** Say. Buffalo (Z&R).
- 1831 **C. leucoscelis** Chev. Ausable Pt., Crown Pt., Sodus Pt., Westfield, Canisteo, Nichols, Whitehall, Ft. Hunter, May-Oct (Not); Rochester (M&W); Lakes Erie and Ontario; Olcott, Ap, Jl (Dt); Buffalo (Lg); Ithaca, May-Je (div.); Taughannock Gorge, May, Aug (Dt); North Branch, Aug (Schaupp); Croton R. (L&B); Suffern, *Sf* (Lg AM); **LI**: Forest Lawn, Aug (Not AM).
- 1831a **C. leucoscelis** var. **cordicollis** Kby. Buffalo (Z&R).
- 1934 **C. prasinus** Dej. Rochester (M&W); Buffalo (Z&R); E. Aurora (Dnd); Westfield, May (Not).
- 1838 **C. aestivus** Say. Buffalo (Z&R); Ithaca, Sep (Dt); Albany, Poughkeepsie, May (NYS); Tivoli, May (Not); Ft. Montgomery, May (Not); Peekskill (Lg); Palisades-on-Hudson, Ap (Not AM); West Pt., Je, *Ds* (Not); Nyack, *Zab* (AM); White Plains, Ap (Sq); Van

Cort. Pk. (div.); Bronx, Mar–Ap (Woodr); Mosholu, May (Ds); NYC, Sep (Vdyk); Yonkers, Ap, Bronxville, Ap–May (Woodr); **SI**: May–Sep (div.); Clove Val., Jl, Ds (Not); **LI**: Jamaica, Nic (Not); Wading R., Aug, Ds (Not).

- 1841 **C. diffinis** Chd. Van Cort. Pk., Nic (Not); **LI**: Rockaway Beach, Ap (AM); Jamaica, Brooklyn, E. New York, Ap, Nic (Not).  
 1842 **C. laticollis** Say. Buffalo (Z&R); Ithaca, Oct, *Flet* (Dt); Van Cort. Pk. (Not AM); **SI**, Ap, Ds; **LI**: Rockaway Beach, Brooklyn, Ap–May, *Shoe* (AM); Bergen Beach, Ap (Not AM); Jamaica (div.); E. New York, Rockaway, May, Ds (Not).  
 1846 **C. sericeus** Forst. Generally distributed and common throughout the State, Mar–Oct.  
 1847 **C. fuscicornis** Dej. Buffalo (Z&R).  
 1848 **C. erythropus** Germ. Buffalo (Z&R); **LI**: Jamaica, Nic (Not).

#### ANOMOGLOSSUS Chaudoir

- 1854 **A. delectans** Csy. Central New York (Csy).  
 1856 **A. emarginatus** Say. Wallface Mt., Jl, Nic (Not); Keene Val., Jl (Not); Rochester (M&W); Olcott, Je (Dt); E. Aurora (Dnd); Castile, *Brad* (Flet); Pike, May (NYS); McLean, May, Ds (Not); Ithaca, Freeville, Taughannock Gorge, May–Sep (Dt); Peekskill (Lg); Mosholu, West Farms, Dunwoodie, Van Cort. Pk. (AM); NYC, Van Cort. Pk., Ap (Woodr); **SI**, Ap (L&D); **LI**: Jamaica, May–Oct (Schaupp); Rockaway Beach, Je, *Shoe*; Parkville, Long Beach (AM); Rockaway, Aug, *Zab* (AM); Half Way Hollow Hills, Jl, Yaphank, Je, Ds (Not).  
 1858 **A. pusillus** Say. Buffalo (Z&R); Mosholu (AM); Bronx, Ap, NYC, Aug (Woodr); **SI**, Mar–Oct (Lg); **LI**: May–Sep (Schaupp); Rockaway Beach, Je, *Shoe* (AM); Coney I., *Lg*.  
 — **A. coeruleicollis** Chd. Van Cort. Pk. (AM); **SI**, Nic (Not); **LI**: Babylon, Jl (AM); Jamaica, Nic (Not).

#### BRACHYLOBUS Chaudoir

- 1860 **B. lithophilus** Say. St. Lawrence Co, *Houghton*; Mooers, Waterville, Canisteo, Westfield, Nichols, Tivoli, Schoharie, May–Sep (Not); Rochester (M&W); Buffalo (Z&R); Olcott, May (Dt); McLean, Ithaca, Aug–Sep (Dt); W. Hebron, Je (Lg); Van Cort. Pk., Jl (Not AM); Suffern, West Farms (AM); **SI** (L&D); **LI**: Brooklyn (Not); Jamaica, Ap–May, Ft. Hamilton, Ap (Woodr); Canarsie, Ap (Not); E. New York, May, Ds (Not).

#### LACHNOCREPIS LeConte

- 1862 **L. parallelus** Say. Rochester (M&W); Sodus Pt., May–Je (Not); Buffalo (Z&R); Erie Co, May–Aug (Dnd); Ithaca, Mar–Ap, *Dt* (Vdyk); Tivoli, May (Not); White Plains, Mar (Sq); **LI**: Ridgewood, Je (Schaupp); Brooklyn, Ap–May, *div.* (Not); Jamaica Bay, Ap (Woodr); Canarsie, May (Not); E. New York, May–Je (Not).

#### ANATRICHIS LeConte

- 1863 **A. minuta** Dej. **LI**: Huntington (Schott).

## OODES Bonvouloir

- 1867 **O. amaroides** Dej. Rochester (M&W); Ulster Co, May, J1, *Shoe*; White Plains, May-Aug (Sq); **SI** (Lg); **LI**: Ridgewood (Schaupp); Brooklyn, May, J1, *Shoe*; Babylon (AM); Wading R., Aug, *Ds* (Not).
- 1868 **O. americanus** Dej. Rochester (M&W); Buffalo (Z&R); McLean Bogs, J1, *Dt* (Vdyk); Tivoli, May (Not); Catskill (Lg); Pine I., Je, *Ds* (Not); Van Cort. Pk., Ap (Woodr); NYC (Lg); **LI**: Brooklyn, May (div.).
- 1869 **O. fluvialis** Lec. Buffalo (Z&R); Catskill (Not, Lg); NYC (Lec).
- 1870 **O. cupreus** Chd. Buffalo (Z&R).

## GEOPINUS Leconte

- 1878 **G. incrassatus** Dej. Gloversville, May (NYS); Rochester (M&W); Buffalo (Z&R); Karner, May (NYS); Greenville (Schaupp); Catskill (Not, Lg); **SI**, Je (Lg); **LI**: Coney I., Rockaway, May-Sep (Schaupp); Rockaway Beach, Je (AM); Jamaica, May, *Nic* (Not).

## CRATACANTHUS Dejean

- 1886 **C. dubius** Beauv. Buffalo (Z&R); NYC (Lg); **LI**: Coney I., Je-J1 (Schaupp); Jamaica, *Nic* (Not).

## HARPALUS Latreille

- 1896 **H. caliginosus** Fab. Keene Val. and Port Kent (Not); Glens Falls, Je, Nassau, Sep, Albany, Je (NYS); Junius, Aug (Dt); Ilion, Pike, Clinton Hgts., Aug (NYS); White L., Aug, *Zab* (AM); Monroe Co (M&W); Olcott, Je-J1 (Dt); Buffalo (Z&R); E. Aurora, common about dry fields (Dnd); Batavia, Je (Lg); Castile, *Brad* (Flet); Elmira, Je (Diven); Ithaca, May-J1 (Dt); Nichols, May (Not); W. Hebron, Je (Lg); Columbia Co, Sep; Whitehall, Oct (Not); West Pt. (Robn); Nyack, *Zab* (AM); Van Cort. Pk., J1 (NotAM); NYC, Je-J1 (Woodr); **SI**, Je-Sep (Lg,Ds); **LI**: many localities and collectors.
- 1897 **H. erraticus** Say. Keene Val., J1 (Not); Essex Co, J1 (NYS); St. Lawrence Co, *Houghton*; Mountain View, Norwood, Ausable Forks, Keene, Ausable Pt., Mooers, Aug-Sep (Not); Rochester (M&W); Olcott, May-J1, Oct (Dt); Buffalo (Z&R); Schenectady (Dt); L. George, Aug, *Zab* (AM); New Baltimore, J1, *Shoe* (AM); Whitehall, Oct (Not); **SI**, Aug (L&D); **LI**: Aqueduct, Sep, *Shoe*; Woodhaven (AM); Fishers I., Aug, *Zab* (AM); Bellport, *Nic* (Not); Selden, *Ds* (Not).
- 1898 **H. caudalis** Csy. "NY" (Csy).
- 1903 **H. viridiaeneus** Beauv. Castile, *Brad* (Flet); generally distributed and common throughout the State, Je-Sep.
- 1907 **H. vagans** Lec. Mooers, Lowville, Canisteo, L. Waccabuc, Nichols, May-Aug (Not); Glens Falls, J1 (NYS); Monroe Co (M&W); Inlet Val., McLean Bogs, Freeville, Ithaca, Renwick, May-Sep (Dt).
- 1909 **H. haldemani** Csy. **LI** (Csy).

- 1910 *H. erythropus* Dej. Keene Val., J1 (Not); Buffalo (Z&R); Westport, Newport, Pike, Albany, Poughkeepsie, Je-Aug (NYS); Montour Falls, Ap (H); E. Aurora, Aug-Sep (Dnd); Big I., Sep (Not); Olcott, Sep (Dt); Ithaca, Ringwood, J1-Sep (Dt); Carmel, Aug (AM); NYC, Aug-Sep (Woodr); Bronxville, Aug (Woodr); **SI**, Aug (L&D); **LI**: Aqueduct, Sep; Brooklyn, Aug, *Shoe*; Bergen Beach (NotAM); Jamaica, Oct, Bellport, Je-Oct, *Nic* (Not).
- 1913 *H. effetus* Csy. **LI**: Willetts Pt. (Csy).
- 1915 *H. compar* Lec. Saranac L., Sep (AM); Wilmington, J1, *Ds* (Not); Syracuse, Ap (H); western NY, common (Dnd); Olcott, Je-J1 (Dt); Monroe Co (M&W); Buffalo (Z&R); Oakfield, Je (Not); Canisteo, Je (Not); Ithaca, Ap, J1, Sep (Ds); Inlet Val., Butternut Cr., May-Sep (Dt); Whitehall, Oct, Parkers, Je (Not); Windham, Oct (Dt); Ft. Hunter, Je (Not); NYC (Schaupp, Lg); **LI**: Astoria (AM); Forest Pk., Je (NotAM); Brooklyn, Oct (Not); Bellport, J1-Aug, Jamaica, *Nic* (Not); Selden, Aug, *Ds* (Not).
- 1920 *H. longicollis* Lec. Keene Val., J1 (Not); Newport, J1 (NYS); Thousand Isls. (Ds); Genesee Co, Ap, *Kngt* (Not.Ds); Batavia, May, *Kngt* (Not); western NY (Dnd); Elmira, Je (Diven); Ithaca, J1, *Hamilton* (Vdyk); L. Waccabuc, J1 (NotAM); Whitehall, Oct (Not); **SI**, J1-Aug (L&D); **LI**: Flushing, Ap (Not).
- 1921 *H. dolosus* Csy. Plattsburg (Csy).
- 1922 *H. faunus* Say. Ausable Chasm, Sep (Not); Monroe Co (M&W); Buffalo (Z&R); Ithaca, Aug (Dt,Lg); Albany, J1 (NYS); Whitehall, Oct (Not); Van Cort. Pk., *Nic* (Not); **SI**, Ap, Sep (div.); **LI**: Jamaica, Bellport, Aug-Sep, *Nic* (Not).
- 1925 *H. pennsylvanicus* Dej. Generally distributed and common throughout the State, Mar-Sep.
- 1926 *H. convivus* Lec. Wilmington, J1, West Pt., Je, *Ds* (Not); **LI**: Rockaway Beach, Je, *Ds* (Not).
- 1933 *H. viduus* Lec. Rock City, Je (Not); Ithaca, McLean Bogs, May, Aug, *Hamilton* (Vdyk); Windsor, Je (Not); Ramapo, Ap (Ds).
- 1934 *H. laticeps* Lec. Keene Val., May (Not); Axton, Je (M&H-AM); E. Aurora (Dnd); Ithaca, May, Butternut Cr., J1 (Dt); Caroline, Ap (Dt).
- 1936 *H. rufimanus* Lec. Keene Val., Je-Aug (Not); Elmira, Ap (Diven); Ithaca, Ap, *Alex* (Not); Catskills, *Nic* (Not).
- 1944 *H. pleuriticus* Kby. Generally distributed and common throughout the State, Ap-Sep.
- 1956 *H. herbivagus* Say. Generally distributed and common throughout the State, Ap-Sep.
- 1957 *H. fallax* Lec. Batavia, Je, *Ds* (Lg); Castile, *Brad* (Flet); Ithaca, Sep, Caroline, Ap (Dt); Karner, May, Albany, Je (NYS); Catskills, *Nic* (Not); Peekskill (Ds); **LI**: Rockaway Beach, May (Woodr).
- 1959 *H. placidus* Csy. **LI**: Willetts Pt. (Csy).
- 1968 *H. opacipennis* Hald. Keene Val., May-J1 (Not); Mt. Skylight, J1 (Not); Sodus Pt., May (Not); Ithaca, Ap, *Alex* (Vdyk); Debruce, Sep (Ds); NYC (Lg).
- 1971 *H. nitidulus* Chd. **LI**: Coney I. (Schaupp).
- 1978 *H. fulvilabris* Mann. Mt. Hopkins, Je, Mt. Marcy, J1, Sodus Pt., May (Not).

- 1981 *H. lewisi* Lec. Keene Val. (Not).  
 1982 *H. aesopus* Csy. Plattsburg (Csy).  
 2000 *H. gravis* Lec. Buffalo (Z&R); **LI**: Orient Pt., May (NYS).  
 2006 *H. obesulus* Lec. Sodus Pt., May (Not).  
 2007 *H. spadiceus* Dej. Newport, Jl, Ilion, May, Pike, Je, Albany, Je (NYS); Monroe Co (M&W); Buffalo (Z&R); Chautauqua (Lg); Ithaca, May, Sep (Dt); W. Hebron (Lg); Catskill (Not, Lg); NYC (Not, Lg); **SI**, Ap (Lg); **LI**: Brooklyn, Ap, Sep-Oct, *Shoe*; Jamaica, *Nic*, Yaphank, Jl, *Ds* (Not).  
 2009 *H. vulpeculus* Say. Monroe Co (M&W); Chautauqua (Lg); Rock City, Je, *Ds* (Not); Ithaca, Je-Sep (Vdyk, Dt); Windsor, May (Not); W. Hebron (Lg); Catskills, *Nic* (Not); West Pt. (Robn); Van Cort. Pk., *Nic* (Not); Bronxville, Ap (Woodr); **SI**, Mar (L&D); **LI**: Jamaica, E. New York (Schaupp); Brooklyn, Aug, Oct, *Shoe*; Queens, Nov, *Nic* (Not).  
 2010 *H. dichrous* Dej. Monroe Co (M&W); Olcott, Je, Oct (Dt); Ithaca, Jl (Dt); W. Hebron (Ds); New Baltimore, Jl, *Shoe* (AM); Van Cort. Pk., Sep (NotAM); **SI**, Je-Sep (Ds); **LI**: Jamaica (Not, Schaupp); Rockaway (AM).  
 — *H. immixtus* Csy. NY, type locality (Lg).  
 — *H. admissus* Csy. NY, type locality (Lg).  
 — *H. amicus* Csy. NY, type locality (Lg).

## SELENOPHORUS Dejean

- 2013 *S. opalinus* Lec. Monroe Co (M&W); Olcott, May-Je (Dt); Ithaca, Je-Jl, McLean, Jl (Dt); Coy Glen, Je, *Ds* (Not); L. George, Aug, *Zab* (Not); Shokan (Lg); Huguenot, Aug, *Zab* (Not); Orange Co, Ap (Morrison); Van Cort. Pk. (AM); NYC, Je-Jl, Bronxville, Ap (Woodr); **SI**, Ap, Je-Jl (L&D); **LI**: Long Beach (AM); Jamaica, Je (Schaupp); Yaphank, Aug (NotAM); Wading R., May (AM); Far Rockaway, Je (Woodr); Rockaway Beach, Je, *Ds* (Not).  
 2015 *S. depressulus* Csy. Monroe Co (M&W); Buffalo (Z&R); Ithaca, Jl.  
 2017 *S. gagatinus* Dej. E. Aurora (Dnd); Ithaca, Ap, Jl (Dt); Catskills, *Nic* (Not); **LI**: Coney I. (Schaupp); Rockaway Beach, Je-Jl, *Shoe* (AM); Wyandanch, Jl, *Ds* (Not).  
 2024 *S. fossulatus* Dej. **LI**: Rockaway Beach, May, *Shoe*.  
 2026 *S. ellipticus* Dej. NYC (AM); Bronxville, Ap, Van Cort. Pk., Je (Woodr); **SI**, Sep (Lg); **LI**: Brooklyn, Rockaway Beach, May-Je, *Shoe* (DsAM); Jamaica, *Nic* (Not).  
 2027 *S. currens* Csy. Catskills (Csy).  
 2039 *S. pedicularius* Dej. Monroe (M&W); **SI** (div.); **LI**: Long Beach (AM); Jamaica, Bellport, Je-Sep, *Nic* (Not).

## GYNANDROPUS Dejean

- 2051 *G. hylacis* Say. Monroe Co (M&W); Olcott, May (Dt); E. Aurora, rare (Dnd); Pike, Mar, Albany and Karner, Ap (NYS); Ithaca, Jl-Aug (Vdyk); Peekskill (Lg); West Pt. (Robn); Huguenot, Aug, *Zab* (Not); NYC, Je (Woodr); Van Cort. Pk., Sep (NotAM); **SI**, Feb (div.); **LI**: Woodhaven, May (Vdyk); Rockaway Beach, Ap-Jl, *Shoe* (Not); Jamaica, Ap, *Nic* (Not); Far Rockaway, Je (Woodr).



## DISCODERUS LeConte

- 2064 **D. parallelus** Hald. Catskills, *Nic* (Not); **LI**: Babylon, *Jl* (AM).

## TRIPLECTRUS LeConte

- 2070 **T. carbonarius** Say. Newport, *Je*, Gloversville, *Ap*, Albany, May (NYS); Monroe Co (M&W); Westfield, May (NotNYS); NYC, Aug (Woodr); **SI**, *Ap*, *Lg*, *Ds* (Not); **LI**: Flatbush, *Ap* (NotAM); Prospect Pk., Feb (Not); Rockaway Beach, Mar, *Nic* (Not); Brooklyn (Lec).
- 2071 **T. rusticus** Dej. Castile, *Brad* (Flet); generally distributed and common throughout the State, *Ap*-Sep.
- 2072 **T. crassus** Lec. "NY" (Lec).
- **T. kempii** Csy. NY, type locality (*Lg*).

## ANISODACTYLUS Dejean

- 2087 **A. harrisii** Lec. St. Lawrence Co, *Houghton*; Norwood, Sep (Not); Newport, Pike, Albany, May (NYS); Olcott, *Ap*, *Je*, McLean, *Jl*, Ithaca, *Ap*-*Jl* (Dt); Johnstown, Genesee Co, Windsor, Centre l., Chauncey, Canisteo, Whitehall, Orangeburg, Catskill, Ft. George, Ft. Hunter, Sloatsburg, NYC, *Ap*-Sep (Not); Syracuse, *Ap* (H); West Pt. (Robn); Tarrytown, May (AM); Bronx, Bronxville, *Ap* (Woodr); **SI**, *Ap*-*Je* (Ds); **LI**, fairly common, *Ap*-*Je* (div.).
- 2088 **A. nigerrimus** Dej. Norwood, Johnstown, Westfield, Greenwood L., Windsor, Nichols, Whitehall, Sloatsburg, Dunwoodie, *Ap*-Oct (Not); Monroe (M&W); E. Aurora, Hamburg (Dnd); Ithaca, Mar-*Jl* (Dt, Vdyk); Catskills, *Nic*, *Lg* (Not); Van Cort. Pk., Mar (NotAM); **SI**, Mar-May (*Lg*); **LI**: Bergen Beach, May (NotAM); Cypress Hills, May, *Zab* (Not); Rockaway Beach, *Ap*, Bellport, *Jl*-Aug, *Nic* (Not).
- 2089 **A. melanopus** Hald. Westfield, May, Greenwood L., May, Chauncey, Mar (Not); West Pt. (Robn); White Plains, Mar, *Ol*s (Not); Van Cort. Pk., Mar (WoodrAM); **LI**: Bergen Beach, May, Cypress Hills, *Je*-*Jl*, Nov (NotAM); Rosedale, *Ap* (Not).
- 2090 **A. nigrita** Dej. St. Lawrence Co, *Houghton*; Waterville, *Je* (Not); Buffalo (Z&R); Monroe Co (M&W); Ithaca, May, Nov (Dt); Nichols, May (Not); West Pt. (Robn); NYC; Bronx, Mar, *Nic* (Not); **SI**, *Ap* (div.); **LI**: Brooklyn, May, Oct, *Shoe* (AM); Cypress Hills, *Jl* (Not); Jamaica, *Ap*-May, *Nic* (Not); E. New York, May (Not); Calverton, Sep (Not).
- 2091 **A. interpunctatus** Kby. Axton, *Je* (M&H); Batavia, May, *Kngt* (Not); Olcott, *Je* (Dt); Niagara Falls (Lec); Montour Falls, *Ap* (H); western NY, common (Dnd); Potter Swamp, *Je* (Not); McLean Bogs, *Jl*, *div.* (Vdyk); Whitehall, Oct (Not); White Plains, Sep, *Sq* (Sf); **LI**: Jamaica, Mar, *Nic* (Not); Brooklyn, May, *Ds* (Not); E. New York, May, Rockaway Beach, *Je*, *Ds* (Not); Flushing, Mar (Not).
- 2092 **A. agricola** Say. Olcott, Aug-Sep (Dt); Pike (NYS); Bronx, May, *Nic* (Not).
- 2094 **A. semipunctatus** Lec. Western NY, common (Dnd).
- 2097 **A. sericeus** Harr. **LI**: Orient, *Lath* (NYS).

- 2107 **A. coenus** Say. Monroe Co (M&W); NYC (div.); **SI**, Je (LgAM); **LI**: Rockaway Beach (AM); Flatbush, Ap-Je, *Zab* (Not); Jamaica, *Nic* (Not); Brooklyn (Lec).
- 2108 **A. laetus** Dej. NYC (L&W).
- 2109 **A. similis** Lec. Buffalo (Z&R). Described from Oregon (Lg).

#### XESTONOTUS LeConte

- 2110 **X. lugubris** Dej. St. Lawrence Co, *Houghton*; Keene Val., Ap-Je (Not); Olcott, Je (Dt); E. Aurora, Mar (Dnd); Niagara Falls (Lec); Westfield, May (Not); Cortland Co (Dnd); Ithaca, Oct, McLean, Aug, Nov (Dt); Catskills, *Nic* (Not); Catskill (Not,Lg); Croton L., Ap (Not); White Plains, Ap-May (Sq); Bronx Pk., Ap (Woodr); **SI**, May (Lg); **LI**: Parkville (AM); Bergen Beach, Ap (NotAM); Jamaica, Ap, *Nic* (Not); Flushing, Mar (Not).

#### AMPHASIA Newman

- 2111 **A. interstitialis** Say. Monroe Co (M&W); Syracuse, Montour Falls, May-Je (H); Olcott, Oct (Dt); Buffalo (Z&R); Genesee Co, Je (Lg); Batavia, Je (Lg); Castile, *Brad* (Flet); Ithaca, Ap, Sep (Dt); Trenton Falls (Not); Rensselaer, Albany, Poughkeepsie, Ap, Oct (NYS); Concord (NotAM); Schoharie, Whitehall, Tivoli, L. Mohonk, Je-Sep (Not); West Pt. (Robn); Ramapo, Je (Lg); Van Cort. Pk., May (div.); Bronx, Mar-Ap (Woodr); **SI**, Feb-Nov (L&D); **LI**: Queens, Nov, Jamaica, Mar, *Nic* (Not); Far Rockaway, May (Woodr); Pinelawn, Je (Ds).

#### PSEUDAMPHASIA Casey

- 2112 **P. sericea** Harr. Olcott, May (Dt); Monroe Co (M&W); Buffalo (Z&R); Ithaca, Ap-Jl (Dt); Albany, Jl, Hill (NYS); Ft. Hunter, Je (Not); West Pt. (Robn); Nyack, *Zab* (NotAM); NYC (Schaupp); **SI**, May-Je (L&D); **LI**, rather common.

#### ANADAPTUS Casey

- 2126 **A. discoideus** Dej. Ausable Lakes, Jl-Aug, Keene, Mountain View, Lowville, Pulaski, Canisteo, Westfield, Windsor, Schoharie, Nichols, Ft. Hunter, May-Oct (Not); Monroe Co (M&W); Buffalo (Z&R); E. Aurora, Gowanda (Dnd); Newport, Albany, Je (NYS); Ithaca, Je-Jl (Dt); West Pt. (Robn); W. Hebron, Je (Lg); NYC, Je (Woodr); **SI**, May (Lg).
- 2127 **A. baltimorensis** Say. Castile, *Brad* (Flet); generally distributed and common throughout the State, Ap-Sep.

#### ANISOTARSUS Chaudoir

- 2132 **A. sayi** Blatch. (*piceus* Lec.). Junius, Aug (Dt); Ithaca, Aug (Lg); West Pt. (Robn); **SI**, *Ds* (Not); **LI**: Fishers I., Aug, *Zab* (Not); Calverton, Yaphank, Wading R., Jl, Sep, *Ds* (Not).

- 2139 **A. terminatus** Say. Monroe Co (M&W); Buffalo (Z&R); Cattaraugus Co, Jl (Not); Ithaca, Jl-Aug (Dt); White Plains, *Sq* (Sf); NYC, Jl-Sep (div.); Bronx Pk., Yonkers (AM); **SI**, Jl-Aug (L&D); **LI**: Cold Sp. Harb., Jl (NotAM); Flatbush, Aug, *Zab* (Not); Bellport, Jl-Aug, *Nic* (Not); Rockaway Beach, May, Far Rockaway, Jl (Woodr).
- 2143 **A. nitidipennis** Lec. E. Aurora, Boston (Dnd); Ithaca, May (Dt); Mosholu, May (Not,Ds); **LI**: Wading R., May, *Nic* (Not).

## SPONGOPUS LeConte

- 2144 **S. verticalis** Lec. Monroe Co (M&W); Batavia, May, *Kngt* (Not); Westfield, May (Not); Ft. Hunter, Je (Not); NYC (Schaupp); Bronx, Van Cort. Pk., Mar-Apr (Woodr); **LI**: Lawrence, Rockaway, Ap (Woodr).

## TRICHOCELLUS Ganglbauer

- 2146 **T. cognatus** Gyll. West Pt., *Robn* (Csy); NYC (Schaupp).

## GLYCERIUS Casey

- 2151 **G. nitidus** Dej. "NY" (DejANSP).

## EPISCOPELLUS Casey

- 2156 **E. autumnalis** Say. Buffalo (Z&R); Ithaca, Je-Jl, Sep (Dt,Lg); Cortland Co (Dnd); West Pt (Robn); **SI**: Tottenville, May, *Ds* (Not); **LI**: New Jamaica, E. New York (Schaupp); Babylon, Jl (AM); Rockaway Beach, Queens, *Nic* (Not); Canarsie, Ap (Not).

## TACHYCELLUS Morawitz

- 2158 **T. nigrinus** Dej. Keene Val., Keene Hgts., Ausable Lakes, Sodus Pt., Mayville, May-Jl (Not); Whiteface Mt., Sep (Lg); Renwick, Ap, Caroline, Ap, *Dt* (Vdyk); West Pt. (Robn).

## TRILIARTHURUS Casey

- 2159 **T. badiipennis** Hald. Whiteface Mt., Upper Ausable L., Keene Val., Portage, May-Aug (Not); N. Elba, Oct (Lg); Monroe Co (M&W); Buffalo (Z&R); Caroline, Ap, Ithaca, Mar-May, *Dt* (Vdyk); Catskills (Lg); West Pt (Robn); Ramapo Mts., May (AM); NYC (Schaupp); Bronx (Woodr); Van Cort. Pk., May (Not); **SI**, May (Lg); **LI**: Far Rockaway, May (Woodr); Rockaway Beach, May, Long Beach, Jl, *Ds* (Not); Jamaica (Lg); Rosedale, Ap (Not).
- 2161 **T. properus** Csy. West Pt. (Csy).
- 2162 **T. kirbyi** Horn. Waterville, Je, Sodus Pt., Je, Batavia, May, Canisteo, Je, McLean, Ap (Not); Ithaca, May-Je, Sep, *Dt* (Vdyk); **LI**: Rosedale, Ap (Not).
- 2163 **T. atrimediis** Say. Monroe Co (M&W); Buffalo (Z&R); Canisteo, Nichols, Orangeburg, Tivoli, Ap-Je (Not); NYC (Schaupp).

## CATHARELLUS Casey

- 2167 **C. cordicollis** Lec. Keene Val., May-Jl (Not); L. Tear, Jl (Not); Manitou Beach, Je, *Zab* (Not).

## STENOCELLUS Casey

- 2169 **S. antennalis** Csy. Catskills (Csy).  
 2170 **S. insulsus** Csy. NYC (Csy).  
 2171 **S. rupestris** Say. Generally distributed and common throughout the State, Feb-Oct.  
 2172 **S. occultus** Csy. Batavia, Jl-Aug, *Kngt*, Canisteo, Je (Not); L. Champlain, Catskills (Csy).  
 2173 **S. debilipes** Say. Lowville, Nichols, Sodus Pt., Schoharie, Windsor, Ft. Hunter, May-Je (Not); **LI**: Nissequogue, Canarsie, Wading R., May-Je (Not); Syracuse, Montour Falls, Ap-May (H).  
 2174 **S. cinctus** Say. "NY" (Csy).  
 2175 **S. congener** Lec. West Pt., *Robn* (Csy).  
 2195 **S. tantillus** Dej. Keene Val., L. Tear, Cape Vincent, Port Kent, Sodus Pt., Oakfield, Nichols, Ft. Hunter, Windsor, May-Sep (Not); Olcott, Feb, Jl (Dt); E. Aurora (Dnd); Ithaca, Mar, Jl, McLean, Jl (Dt); **SI**, Dec-Mar (AM,Lg); **LI**: Rockaway Beach, Ap-May, *Shoe*; Bellport, Jl, *Nic* (Not).  
 2198 **S. neglectus** Lec. Buffalo (Z&R); Ithaca, Je-Jl, *Hamilton* (Vdyk); West Pt., *Robn* (Csy).  
 — **S. nigriceps** Lec. Ithaca, May, *Hamilton* (Vdyk).

## AMERINUS Casey

- 2203 **A. linearis** Lec. Monroe Co (M&W).

## PHILODES LeConte

- 2205 **P. testaceus** Lec. Olcott, Mar (Dt); Canisteo, Yates Co, Windsor, Nichols, May-Je (Not); Taughannock Gorge, Coy Glen, May, *Di* (Vdyk).

## GONIOLOPHUS Casey

- 2209 **G. rectangulus** Chd. Nichols, May (Not).

## ACUPALPUS Latreille

- 2211 **A. hydropicus** Lec. St. Lawrence Co, *Houghton*; Monroe Co (M&W); West Pt. (Robn); Bronx Pk., Mar-Apr, *Shoe*; Van Cort. Pk., Ap (Woodr); **SI**, Feb-Apr (div.); **LI**: Brooklyn, Mar-Apr, *Shoe*; Jamaica, Ap, *Nic* (Not).  
 2213 **A. carus** Lec. Keene Val., Ausable Pt., Mt. Marcy, Waterville, Sodus Pt., Batavia, Oakfield, Nichols, Tivoli, May-Sep (Not); Gloversville, Mar, Johnstown, Ap (NYS); Monroe Co (M&W); Olcott, Mar-Apr (Dt); Buffalo (Z&R); Ithaca, May, McLean Bogs, Jl (Dt); West Pt. (Robn); Bronx, Ap (Woodr); **SI**, Feb-Sep (div.); **LI**: Brooklyn, May, Jamaica, Ap, *Nic* (Not).  
 2215 **A. trivialis** Csy. L. Champlain (Csy).

## STENOLOPHUS Dejean

- 2216 *S. carbonarius* Dej. **SI** (Lg); **LI**: Hauppauge, Ap, *Nic* (Not).  
 2218 *S. ochropezus* Say. Rather generally distributed throughout the State, Ap-Nov.  
 2220 *S. fuliginosus* Dej. Keene Val., Upper Ausable L., Wallface Mt., L. Tear, Canadice, Sodus Pt., Canisteo, Genesee Co, Tivoli, Orangeburg, Ap-Sep (Not); St. Lawrence Co, *Houghton*; Monroe Co (M&W); Olcott, Feb-Apr (Dt); E. Aurora, scarce (Dnd); Pike, Ap (NYS); Renwick, Ap, Nov, *Dt* (Vdyk); Ithaca, McLean, Jl-Aug, *Dt* (Vdyk); West Pt. (Robn); Van Cort. Pk. (AM); **SI**: Feb, Ap, Oct (L&D, Woodr); Watchogue, Ap, *Ds* (Not); **LI**: Jamaica, Rockaway Beach, May, *Nic* (Not).  
 2232 *S. dissimilis* Dej. Buffalo (Z&R).  
 2234 *S. plebejus* Dej. Pike, Albany, Poughkeepsie, Ap-May (NYS); Ithaca, Mar, Je, *Dt* (Vdyk); Ramapo, Ap (Not, *Ds*); Van Cort. Pk. (NotAM); **SI**, Feb, Je (Woodr, Not); **LI**: Jamaica, *Nic* (Not); Wyandanch, Oct (Not).  
 2235 *S. fuscatus* Dej. L. Tear, Jl, Windsor, Je, Van Cort. Pk. (Not).  
 2236 *S. humidus* Ham. "NY" (Lg Cat.).  
 2238 *S. conjunctus* Say. Generally distributed throughout the State, Ap-Sep.  
 2243 *S. scitulus* Csy. Keene Val., May-Je, Westfield, May (Not).

## TACHISTODES Casey

- 2245 *T. indistinctus* Dej. Olcott, Ap, Je (Dt); E. Aurora, May (Dnd); NYC (Schaupp); **SI** (Lg).  
 2246 *T. testaceus* Dej. **SI**, Je (Lg); **LI**: Rockaway Beach, Je, *Shoe*, May, *Nic* (Not).  
 2247 *T. pauperculus* Dej. Keene Val., Mt. Skylight, Cliff Mt., Canadice, Lowville, Oakfield, Nichols, Tivoli, May-Jl (Not); St. Lawrence Co, *Houghton*; Buffalo (Z&R); Batavia (Lg); Ithaca, Jl (Lg); Charlotte, Je, *Zab* (Not); White Plains, May (Sq); Suffern (AM); **SI** (Lg); **LI**: Jamaica, Yaphank, *Nic* (Not).  
 2248 *T. humilis* Dej. "NY" (Not, Lg); Batavia, Jl, *Kngt* (Not).  
 — *T. obscurus* Csy. NY, type locality (Lg).  
 — *T. convergens* Csy. NY, type locality (Lg).  
 2249 *T. partarius* Say. Syracuse, May (H); Monroe Co (M&W); Buffalo (Z&R); Olcott, Ap, Je (Dt); Taughannock Gorge, Jl (Lg); Albany, Nassau, May (NYS); West Pt. (Robn); West Farms (AM); **SI**, Ap, Je (L&D); **LI**: Jamaica, Rockaway Beach, Bellport, May-Je, *Nic* (Not); Far Rockaway, May (Woodr); Coney I. (Lg).

## AGONODERUS Dejean

- 2251 *A. lineola* Fab. Rochester (M&W); Buffalo (Z&R); Peekskill, May (Lg); West Pt. (Robn); Moshulu, Je (NotAM); High Bridge (AM); NYC (Schaupp, Woodr); **SI** (Lg); **LI**: Jamaica, Bellport, Je-Jl, *Nic* (Not); E. Hampton, Jl (Woodr).  
 2254 *A. infuscatus* Dej. "NY" (Lec); E. Aurora, Jl (Dnd).



- 2256 **A. pallipes** Fab. St. Lawrence Co, *Houghton*; Axton, Je, Monroe Co (M&W); western NY, common (Dnd); Olcott, Feb-Jl (Dt); Castile, *Brad* (Flet); Six Mile Cr., Ap (Morr); McLean, Aug, *Dt* (Vdyk); Ithaca, Je-Jl (Vdyk, Dt); Taughannock Gorge, Sep (Vdyk); Renwick, Ap, *Dt* (Vdyk); Newport, Nassau, Albany, Ap-Jé (NYS); Windsor, Je (Not); New Baltimore, Nyack, *Zab* (AM); Orange Co, Ap (Morr); Durlandville, Je, *FrostSW* (Dt); West Pt. (Robn); Stony Pt., Je (AM); Mosholu, Je (Not); Bronxville, Mar-Apr (Woodr); Bronx Pk., Ap-May, Sep, *Shoe* (AM); **SI**, Feb-Jl (Woodr,Lg); **LI**: Brooklyn, Ap-May, Sep, *Shoe* (AM); Flatbush, May-Sep, *Zab* (AM); Orient, *Lath* (NYS); Forest Pk., Bergen Beach, May-Je (NotAM); Bellport, Jamaica, Jl, Sep, *Nic* (Not).
- 2261 **A. comma** Fab. Generally distributed throughout the State, May-Oct.
- 2263 **A. gracilitarsis** Csy. "NY" (Csy).

## FAMILY OMOPHRONIDAE

## OMOPHRON Latreille

- 2282 **O. labiatum** Fab. **SI**, May, *Shoe*; **LI**: Coney I., *Lg*; Rockaway Beach, Sep, *Shoe*. Confined to the extreme southern part of the State. Lives in sandy soil near water; dislodged by day by pouring water over the soil; active on the surface at night.
- 2284 **O. americanum** Dej. The most common species. Keene, Jl, *Not*; Lowville, Je (Not); Manlius (VdykCU); Sylvan Beach, Je, Sodus Pt., Je (Not); Monroe Co (M&W); Buffalo (Z&R); E. Aurora, Je (Dnd); Pike, Jl (NYS,AM); Oakfield, Je, Westfield, May, Canisteo, Je, Nichols, May (Not); Inlet Val., May, Jl (Dt,Wendelkin); Taughannock Falls, Jl (Dt, Wendelkin); Ithaca, Ap-May, *div.* (Vdyk,MacG-CU,NYS); Schoharie, Jl, Ft. Hunter, May-Je (Not); Albany (Lint); Washington Co, Je, *Lg*; L. Waccabuc, Aug (NotAM); Peekskill, May, *Sherm* (VdykCU); Nyack, Je, White Plains, May, *Brownell* (Lg); **SI**: May-Je, Aug, *Lg* (Ds-NYS, AM); Bulls Head, Sep (Woodr); **LI**: Brooklyn, May, *Shoe*; Canarsie, Ap-May (Not); Coney I., Rockaway, May-Oct (Schaupp). On sandy banks of brooks and pools.
- 2287 **O. tessellatum** Say. Sylvan Beach, Je (Not); Buffalo (Z&R); E. Aurora, Je (Dnd); Nichols, May (Not); Inlet Val., Jl (Dt, Wendelkin); Schoharie, Je (Not); **SI**, *Lg* (Ds); **LI**: Edgemere, May (Woodr); Coney I., Rockaway, May-Oct (Schaupp). Not common. Ecology same as in *labiatum*.

## FAMILY HALIPLIDAE

## HALIPLUS Latreille

- 2299 **H. fasciatus** Aubé. Warren Co (Sherm); Syracuse (H); Olcott (Dt); Buffalo (Rein); E. Aurora, *Dnd* (Mat); Washington Co, *Lg* (Sherm); Hessian L., Bear Mt. (Sherm); Peekskill (Sherm); West Pt. (Robn); White Plains (Sq); Esopus, *Sherm* (Mat); Tomkins Cove (Rbts); NYC (NotAM); **SI** (L&D); **LI**: Cypress Hills, *Zab* (NotAM). Ap-Sep.
- 2300 **H. connexus** Mat. Warren Co (Sherm); Fish Cr., Oneida Co (Dt); Buffalo, *Dnd* (Mat); Ithaca, Taughannock Gorge, Ringwood (Mat); Washington Co, Je (Lg, Sherm); Esopus (Sherm). Je-Aug.

- 2301 **H. triopsis** Say. Sodus Pt., May (Not); Buffalo (Rein); E. Aurora, *Dnd* (Mat); Ithaca, Ringwood (Mat, Dt); Washington Co (Lg, Sherm); W. Hebron, Je (Ds); Wingdale (Sherm); Peekskill (Sherm); Esopus (Sherm); West Pt. (Robn); White Plains (Sq); Hessian L., Bear Mt (Sherm); NYC (L&B); **SI** (NotAM). May-Oct.
- 2303 **H. leopardus** Rbts. Olcott (Dt); Washington Co (Sherm); Catskills (Nic); Esopus (Sherm); Peekskill (Sherm); Hessian L., Bear Mt. (Sherm); White Plains (Sq); NYC (Rbts).
- 2305 **H. cribrarius** Lec. Warren Co (Sherm); Syracuse, in cedar and sphagnum bog (H); E. Aurora, *Dnd* (Mat); Ithaca, Ringwood, McLean (Mat, Dt); Catskills (Sherm).
- 2306 **H. subguttatus** Rbts. Recorded from Tyngsboro, Mass., by Roberts, but undoubtedly occurs in NY collections mixed with the preceding species (Mat).
- 2317 **H. borealis** Lec. Mooers, Oct (Not); **SI**, Oct 9 (L&D).
- 2318 **H. ruficollis** DeG. Probably common all over North America (Mat); Syracuse, in cedar bog, as *immaculicollis*, *Harr* (H); Sodus Pt., May-Je (Not); Olcott (Dt); Buffalo, E. Aurora, E. Concord, *Dnd* (Mat); Oakfield, Je (Not); Ithaca (Mat); McLean (Dt); Oneida Co (Dt); Esopus (Sherm); Peekskill, Chatham (Sherm); West Pt. (Robn); White Plains (Sq); Bronx Pk. (Lg); **SI** (L&D); **LI**: Astoria; Flatbush (AM); Cypress Hills (AM); Fishers I. (AM). May-Oct.
- 2319 **H. blanchardi** Rbts. Syracuse, in sphagnum bog (H); **SI** (Robts, L&D). May-Je.
- 2322 **H. longulus** Lec. Pike (NYS); Buffalo (Rein); Grand I., E. Concord, *Dnd* (Mat); Batavia (Kngt); Ithaca (Mat); Ringwood (Dt); Karner (NYS); Washington Co (Sherm); Peekskill (Sherm); West Pt. (Robn); **SI** (AM). May-Oct.

#### PELTODYTES Regimbart

- 2324 **P. tortulosus** Robts. Buffalo, Jl 20, 1918, *Dnd* (Mat).
- 2328 **P. muticus** Lec. Sodus Pt., Je (Not); E. Aurora, E. Concord, *Dnd* (Mat); Murray Br., Oneida Co (Dt); Syracuse, in cedar bog (H); Colden (Mat); Ithaca (Mat); Esopus (Rbts); West Pt. (Robn); White Plains (Sq); NYC and vic (AM); **SI**, Sep, *Sherm* (L&D); **LI**: Flushing (Mat). May-Oct.
- 2331 **P. shermani** Robts. White Plains (Sq); NYC and vic (Robts); **SI**, May-Sep, types (L&D).
- 2332 **P. pedunculatus** Blatch. Ithaca (Mat).
- 2335 **P. lengi** Rbts. Hessian L., Bear Mt (Sherm); **SI**, Sep, type (L&D).
- 2336 **P. duodecimpunctatus** Say. Oneida Co (Dt); Sodus Pt., May-Je (Not); Olcott (Dt); Buffalo (Rein); E. Aurora, *Dnd* (Mat); Castile, *Brad* (Flet); Ithaca (Mat); W. Hebron (AM); Poughkeepsie (Mat); Esopus (AM); West Pt. (Robn); Tomkins Cove, *Zab* (AM); Yonkers (Lg); Bronx Pk. (Lg); **SI**, Ap-May, Sep, *Sherm* (L&D); **LI**: Flushing (Mat); Flatbush, Cypress Hills, Fishers I., *Zab* (AM). Ap-Sep.
- 2337 **P. edentulus** Lec. Keene Val. (Dt); Pike (Mat); White L., Onondaga Co (H); Sodus Pt., May-Je (Not); Buffalo, *Dnd* (Mat); Colden (Mat); Ithaca, McLean (Mat); Washington Co (Lg); West Pt. (Robn); White Plains (Sq); **SI** (L&D). May-Nov.

FAMILY DYTISCIDAE<sup>30</sup>

## SUBFAMILY NOTERINAE

## CANTHYDRUS Sharp

- 2340 *C. puncticollis* Cr. L. Waccabuc (AM); NYC (L&B); **SI**, May (L&D).  
 2342 *C. gibbulus* Aubé. Westchester Co (ShermCU).

## HYDROCANTHUS Say

- 2346 *H. iricolor* Say. Sodus Pt., Je (Not); Buffalo (AM); Peekskill; White Plains, May 30-Oct 25 (Sq); Esopus, Sep (AM); Van Cort. Pk. (Sherm); NYC (AM); **SI**, Ap-Je, Aug-Sep (L&D); **LI**: Richmond Hill (Sherm); Fishers I., Aug (AM).

## SUBFAMILY LACCOPHILINAE

## LACCOPHILUS Leach

- 2351 *L. maculosus* Germ. Keene Val., Jl, Saranac Inn, Jl (NYS); Newport (NYS); Adirondack Lodge, Jl, *Bish* (NYS); Mooers, Sep (Not); Cranberry L., Je 18 (H); Syracuse, Ap-May (H); Sodus Pt., Je (Not); Buffalo (Z&R); Pike (NYS); Castile, *Brad* (Flet); Batavia, Je (Kngt); Caledonia Cr., Livingston Co, Dec (Lec); Westfield, May (Not); Ithaca, Jl-Sep (Sherm-CU); McLean Bogs, *Dt* (NYS); Windsor, Je (Not); Schoharie (Not); Albany, Ap, Karner, Nassau, May (NYS); Peekskill, Aug (ShermCU); Poughkeepsie, Ap (NYS); W. Hebron, Je (Lg); Binghamton, Ap (AM); West Pt (Robn); Nyack, Oct (AM); Esopus (AM); White Plains, Mar 10-Oct 12 (Sq); Tomkins Cove (Lg); Bronx Pk., Aug-Sep (AM); **SI**, Mar-Je (L&D); **LI**: Flatbush, Ap-May, Cypress Hills, May, Fishers I., Aug (AM); Calverton, Sep (Ds).  
 2353 *L. proximus* Say. E. Aurora, Sep, in ponds, scarce (Dnd); Ithaca, Je-Jl (Dt); Peekskill (Sherm); **SI**, Jan-Apr, Sep, Nov (L&D).  
 2354 *L. inconspicuus* Fall. Ringwood, May, *Senning* (Flet).  
 2359 *L. fasciatus* Aubé. Peekskill (Sherm); NYC (AM); **SI**, May, Jl (L&D).  
 2363 *L. undatus* Aubé. Buffalo (AM); Peekskill (Sherm); Esopus, Sep (Sherm); West Pt. (Robn); NYC (AM); **SI**, Ap-Je, Aug-Oct (L&D).

## SUBFAMILY HYDROPORINAE

## HYDROVATUS Motschulsky

- 2367 *H. cuspidatus* Kunze. Sodus Pt., Je (Not); E. Aurora, Aug, in a marshy pool (Dnd); Esopus (Sherm); West Pt. (Robn); Peekskill (Sherm); **SI**, Ap-May, Aug-Sep (L&D).

## DESMOPACHRIA Babington

- 2374 *D. convexa* Aubé. Mooers, Sep (Not); Gloversville, May (NYS); Syracuse, Ap-May (H); Sodus Pt., Je (Not); Buffalo (Z&R); Concord, Erie Co, Aug (Dnd); Castile, *Brad* (Flet); Ithaca, Aug 12, McLean, May 21 (ShermCU); Ringwood, Je-Jl (Dt); Peekskill (Sherm); NYC (L&B); **SI**, Ap-May (L&D); **LI**: Jamaica, May (AM).

<sup>30</sup> H. C. Fall and John D. Sherman, Jr., have gone over the manuscript for this list and made many corrections. Mr. Sherman has supplied all of his records from his extensive collecting and study of this family in New York.

**BIDESSUS** Sharp

- 2385 **B. flavicollis** Lec. Chaumont, Sep (Not); **SI**: Sep 8 (L&D); 1000 specimens of this species were taken in one single haul of the net from the shallow water, close to the shore of the L&D locality, Sep 8, 1900 (Sherm).
- 2388 **B. pulicarius** Aubé. Ithaca, Oct (Kngt); Hessian L., Aug, Esopus (AM); Bear Mt. L., Peekskill (Sherm); **SI**, May (L&D).
- 2390 **B. affinis** Say. Newport, May (NYS); Cranberry L., Je 23 (H); Mooers, Sep (Not); Syracuse, Ap-May (H); Sodus Pt., Je (Not); Olcott, Jl (Dt); Buffalo (Z&R); E. Aurora, Jl-Aug, common (Dnd); Caledonia Cr., Dec (Lec); McLean, Aug (Dt); Ithaca, Ap, Oct (ShermCU); Cortland Co, Jl-Aug, common (Dnd); Windsor, Je (Not); Oneida Co, Aug, *Clms* (Dt); W. Hebron, Je (Lg); West Pt. (Robn); Bear Mt. L. (Sherm); Esopus, NYC (AM); **SI**, Jl, Sep (L&D); **LI**: Rockaway Beach (AM).
- 2394 **B. lacustris** Say. Buffalo (Z&R); Batavia, Jl (Kngt); Chautauqua, Thompson (Sherm); NYC (L&B); **SI**, Je, Aug (L&D).
- 2395 **B. fuscatus** Cr. Sodus Pt., Je (Not); E. Aurora, Sep, Nov; Oneida Co, Jl 25, *Clms* (Dt); Ringwood, Je (Dt); Peekskill (ShermCU); **SI**, May, Jl-Aug (L&D). Occurs always in woodland pools (Sherm).
- 2398 **B. granarius** Aubé. Esopus (Sherm); Peekskill, Jl 21 (ShermCU); **SI**, May, Jl-Aug, Nov (L&D).
- 2399 **B. suburbanus** Fall. **SI**, Jl (L&D); type locality in woodland pools (Sherm).

**CELINA** Aubé

- 2400 **C. angustata** Aubé. NYC (AM); **SI**, May, Jl (L&D).

**COELAMBUS** Thomson <sup>81</sup>

- 2407 **C. acaroides** Lec. E. Aurora, Sep, scarce (Dnd).
- 2403 **C. punctatus** Say (*inaequalis* Fab.). Adirondacks (Fall); Mooers, Sep (Not); Syracuse, May (H); Sodus Pt., Je (Not); Olcott, Je (Dt); Buffalo (Z&R); Westfield, May (Not); Ithaca, May 8 (ShermCU); McLean, May 21 (ShermCU); West Pt. (Robn); Peekskill (Sherm); White Plains, Ap 27-Oct 25 (Sq); near NYC (L&B); **SI**, Ap-May, Aug-Oct (L&D).
- 2425 **C. laccophilinus** Lec. Mooers, Sep (Not); Ringwood, Je-Jl (Dt); Peekskill, in woodland pools (Sherm); **SI**, Jl-Aug (L&D).
- 2426 **C. sylvanus** Fall. Peekskill, type locality, in woodland pools (Sherm).
- 2408 **C. turbidus** Lec. Mooers, Sep (Not); Ringwood, Je (Dt); near NYC (L&B); **SI**, Sep (L&D).
- 2409 **C. dispar** Lec. (*dissimilis* G. & H.). Westfield, May (Not); McLean, Aug (Dt); Washington Co (AM); Schoharie (Not); Esopus, *Sherm* (Fall); West Farms (AM).
- 2420 **C. nubilus** Lec. Common and widely distributed from New England to western Texas (Fall). Buffalo (Z&R); E. Aurora, Aug-Sep, frequent in pools and brooks (Dnd); Ithaca (ShermCU); West Pt. (Robn); near NYC (L&B); **SI**, Jan, Oct (L&D).

<sup>81</sup> The arrangement of species in *Coelambus* is that of Fall in his paper on *The North American Species of Coelambus*, published in 1919.

- 2424 **C. impressopunctatus** Schall. Syracuse (H); Buffalo, Aug (Z&R, Dnd); E. Aurora, Aug (Dnd); Sodus Pt., May-Je, and Westfield, May (Not); Ithaca, Sep (Dt); NYC (AM); **SI**, Mar-Apr, Jl (L&D).

HYDROPORUS Clairville <sup>32</sup>

- 2444 **H. mellitus** Lec. Peekskill (AM); Esopus, in running brooks, *Sherm* (Fall); **SI**, Aug (L&D).
- 2440 **H. pulcher** Lec. E. Aurora, Jl, in brooks, scarce (Dnd); Chautauqua (Lg); Esopus, Aug, in running brooks (*Sherm*); White Plains, Oct (Sq); **SI**, Jl-Aug (L&D).
- 2437 **H. wickhami** Zaitz. (*concinus* Lec.). E. Aurora, Jl-Aug, common in brooks (Dnd); Chautauqua (Fall); Sodus Pt., Je, Westfield, May (Not); Ithaca, Sep (Fall, Dt); near NYC (L&B).
- 2441 **H. oppositus** Say (*integer* Shp.). Livingston Co, Dec (Lec); Ithaca, Oct 15 (*ShermCU*); Catskills (Fall); Esopus, Sep, *Sherm* (AM); Washington Co, Aug (AM); **SI**, Sep (AM).
- 2473 **H. vitiosus** Lec. Mooers, Sep, *Not* (Fall); Ithaca, Jl, Sep (Fall, Dt); Washington Co., *Sherm* (Fall); **SI**, Je-Jl (L&D).
- 2442 **H. shermani** Fall. **SI**, type locality (L&D).
- 2474 **H. blanchardi** *Sherm.* (*vitiosus* Shp.). Peekskill, in running brooks, *Sherm* (Fall); **SI** (Fall).
- 2471 **H. striatopunctatus** Melsh. Ithaca, Oct 15 (*ShermCU*); West Pt. (Robn); Esopus, in running brooks, *Sherm* (Fall); NYC, Aug (AM); **SI**, May, Jl-Aug (L&D).
- 2460 **H. sulcipennis** Fall. Peekskill, in running brooks, *Sherm* (Fall).
- 2458 **H. spurius** Lec. Buffalo (Z&R); Oneida Co, Jl 25, *Clms* (Dt); West Pt. (Robn); Esopus, Sep, in running brooks (*Sherm*); **LI**: Yaphank (Ds).
- 2459 **H. dilatatus** Fall. Esopus, in running brooks, *Sherm* (Fall).
- 2449 **H. lobatus** Sharp. **SI**, May, Jl-Aug (L&D).
- 2447 **H. undulatus** Say. Generally distributed (*Sherm*). Newport, May (NYS); Syracuse, Ap-May (Wallis); Oneida Co, Je, *Clms* (Dt); Castile, *Brad* (Flet); Ithaca, Jl-Aug, *Sherm* (Fall, Dt); McLean Bogs (Fall, Dt); Esopus, *Sherm* (Fall); West Pt. (Robn); Peekskill (Fall); White Plains, May 3-Oct 13 (Sq); Van Cort. Pk., Bronx Pk., Aug (AM); **SI**, Feb, Ap, Je-Oct (L&D); **LI**: Cypress Hills, Je, Fishers I., Aug (AM); Calverton, Sep (Ds).
- 2454 **H. consimilis** Lec. Westport, Aug (NYS); Mooers, Sep (Not); Warren Co, *Sherm* (Fall); Sodus Pt., *Not*. (Fall); Buffalo (Z&R), Jl, in marsh, scarce (Dnd); Ithaca, Oct (Kngt).
- 2457 **H. carolinus** Fall (*proximus* Aubé). Cranberry L., Je-Jl (H); Washington Co, *Sherm* (Fall); Warren Co, *Sherm* (Fall); Westchester Co (*ShermCU*).
- 2452 **H. clypealis** Shp. Ithaca, Oct 9-10 (*ShermCU*); McLean Bogs, Aug (Fall, Dt); Washington Co (*Sherm*); Esopus, Sep (AM); Peekskill, *Sherm* (Fall); **SI**, Jl-Sep (L&D).
- 2463 **H. mixtus** Lec. ?Avon, Jan (Cls); Ithaca, Oct, McLean, May 21 (*ShermCU*); NYC (L&B); **SI**, Aug (L&D). Fall writes, "I have not recognized this form from New York, but these records may be all right."

<sup>32</sup> The arrangement of species in *Hydroporus* is that of Fall in his paper on *A Revision of the North American Species of Hydroporus and Agaporus*, published in 1923.



- 2466 *H. sericeus* Lec. Buffalo (Z&R). Possibly a misidentification (Fall).  
 2467 *H. solitarius* Shp. Ithaca, Oct 5 (ShermCU); Esopus (Sherm); Wingdale (Sherm); **LI**: Wading R., May, *Nic* (Lg).  
 2461 *H. hybridus* Aubé. "NY" (AubéANSP). Fall writes, "I doubt this somewhat."  
 — *H. deflatus* Fall. **SI**, *Sherm* (Fall).  
 — *H. paugus* Fall. Warren Co; Peekskill; Esopus; Wingdale; **SI**. All *Sherm* (Fall).  
 2523 *H. oblitus* Aubé. Peekskill (L&B); **SI** (L&D).  
 2521 *H. stagnalis* G. & H. Cranberry L., Je (H); Peekskill, J1 (ShermCU); NYC (L&B); **SI**, J1 (L&D).  
 — *H. filiolus* Fall. McLean Bogs, Aug (Fall, Dt); Peekskill, *Sherm* (Fall).  
 — *H. aequus* Fall. Peekskill, Kaaterskill, *Sherm* (Fall).  
 — *H. rufiplanulus* Fall. Rock City, types, *Ds* (Fall); Peekskill, *Sherm* (Fall).  
 2510 *H. dichrous* Melsh. Syracuse, May (H); Buffalo (Z&R); Ithaca, J1, Sep (Fall, Dt); Esopus, Sep (AM); NYC (L&B); **SI**, May, J1-Aug (L&D).  
 2524 *H. brevicornis* Fall. Peekskill, *Sherm* (Fall); **SI**, *Sherm* (Fall).  
 2505 *H. americanus* Aubé. Newport, Pike, Je (Yg); Ithaca, Aug, Karner, J1 (NYS); Peekskill (L&B); NYC (L&B); **SI**, May-J1, Sep (L&D).  
 2506 *H. dentellus* Fall. Ithaca, Je-J1 (Fall, Dt).  
 2516 *H. ruficeps* Shp. **SI**, J1-Aug (L&D).  
 2514 *H. niger* Say (*modestus* Aubé). Cranberry L., Je 23 (H); Mooers, Sep (Not); Syracuse, Ap-May (H); Sodus Pt., Je (Not); Buffalo (Z&R); Ithaca, J1, Sep (Fall, Dt); McLean, Oct 21 (ShermCU); Windsor, Je (Not); Washington Co, W. Hebron, Peekskill, Sep (AM); White Plains, Mar 10-Oct 20 (Sq); Kaaterskill, *Sherm* (Fall); **SI**, Jan, Ap-May, J1-Oct (L&D); **LI**: Cypress Hills (AM).  
 2495 *H. despectus* Shp. Ithaca, Je-J1 (Fall, Dt); **SI** (AM).  
 2493 *H. tenebrosus* Lec. Mooers, Sep (Not); Syracuse, May (H).  
 2490 *H. melanocephalus* Gyll. (*morio* Shp.). Mooers, Sodus Pt., May (Not).  
 2508 *H. signatus* Mann. not Shp. (*inornatus* Shp.). Syracuse, Ap-May (Wallis); Buffalo (Z&R); Ithaca, Je, McLean Bogs, Aug (Fall, Dt); West Pt. (Robn); Peekskill (L&B); Wingdale (Fall); **SI**, Feb, May-J1, Sep (L&D); **LI** (Fall).  
 2509 *H. fuscipennis* Kies. Syracuse, Ap (Wallis). (Fall gives the author of this species as Schaum.)  
 — *H. striola* Gyll. Cranberry L., Je (H); Syracuse, Ap-May (H); Ithaca, J1 (Fall, Dt), as *vitulus* Er.  
 2502 *H. striola* var. *subtonsus* Lec. Peekskill (AM); **SI** (Sherm).  
 2501 *H. tristis* Payk. Widely distributed (Sherm). Pike, Ap (NYS); Peekskill (Sherm); NYC (L&B); **SI**, J1 (L&D).  
 2430 *H. (Deronectes) griseostriatus* DeG. var. *catascopium* Say. Pike, Je (NYS); Buffalo (Z&R); McLean, Oct 21, Ithaca (ShermCU); W. Hebron, Je (Lg); Peekskill, *Sherm* (L&B); NYC (AM); **SI**, May, Oct (L&D).  
 2429  
 2428 *H. (Deronectes) depressus* Fab. (*rotundatus* Lec.). "NY" (Fab); Buffalo (Z&R); W. Hebron, Je, in running water (Sherm, Lg).

- 2483 **H.** (*Oreodytes*) *septentrionalis* Gyll. Westfield, May (Not); Catskills, in running water, *Sherm* (Fall).

**AGAPORUS** Zimmerman

- 2531 **A.** *difformis* Lec. (*Hydroporus*). Buffalo (Z&R); Peekskill, May-Sep (*Sherm*); White Plains, Ap (Sq); **SI**, Ap-Je (*Sherm*). Occurs in woodland pools, among rotted leaves, and is very sluggish in its movements (*Sherm*).
- 2532 **A.** *conoideus* Lec. Ringwood, Jl, *Senning* (Flet).

SUBFAMILY **COLYMBETINAE**

**AGABUS** Leach<sup>33</sup>

- 2548 **A.** *semivittatus* Lec. E. Aurora, Jl-Aug, in brooks (Dnd); Westfield, May (Not); Ithaca, Ap-May, Jl (*ShermCU*); Schoharie (Not).
- 2546 **A.** *stagninus* Say. "NY" (AM); Clarence, Erie Co, Aug, one specimen (Dnd); Batavia, Je (Kngt).
- 2543 **A.** *obtusatus* Say. Newport (NYS); Chautauqua, *Thompson* (*Sherm*); Westfield, May (Not); Peekskill, Jl, in springs (*ShermCU*); White Plains, Ap 13-Sep 13 (Sq); near NYC (L&B); Spuyten Duyvil (*Sherm*); **SI** (L&D).
- 2544 **A.** *planatus* Shp. **SI**, *Rbts* (Fall).
- 2539 **A.** *seriatus* Say. Newport, May (NYS); Manlius, Mar (*ShermCU*); E. Aurora, May-Jl, in brooks, scarce (Dnd); Buffalo (Z&R); Ithaca, Aug 5 (*ShermCU*); Gloversville, Ap (NYS); Peekskill, *Sherm* (L&B); **SI**, Ap-Aug (L&D).
- 2550 **A.** *punctatus* Melsh. NYC (AM); **SI**, Ap-Je, Aug (L&D); **LI**, L&D (*Sherm*).
- 2551 **A.** *punctulatus* Aubé (*aeneolus* Cr.). Pike, May 20 (Fall, Frost); Buffalo (Z&R); McLean, Jl (Dt); Cortland Co, May 21 (*ShermCU*); Washington Co, Je (AM); W. Hebron (*Sherm*).
- 2553 **A.** *semipunctatus* Kby. (*stridulator* Shp.). Buffalo (Z&R); Cortland Co, Jl, in pasture pools (Dnd); Peekskill, in woodland pools (*Sherm*); NYC (AM); **SI** (*Sherm*).
- 2556 **A.** *taeniolatus* Harr. Buffalo (Z&R); NYC (AM); **SI** (L&D).
- 2557 **A.** *disintegratus* Cr. E. Aurora, Sep, one in large pond (Dnd); Ithaca, Ap 21 (*ShermCU*); McLean Bogs, Aug (Dt); West Pt. (Robn); Peekskill (AM); NYC, Oct (AM); **SI**, May, Jl, Dec (L&D); **LI**: Forest Pk., *Shoe* (*Sherm*).
- 2562 **A.** *ambiguus* Say (*reticulatus* Aubé, *fimbriatus* Lec.). Cranberry L., Je (H); Mooers, Sep (Not); Syracuse, Ap-May (H); Buffalo (Z&R); E. Aurora, Sep, in ponds, scarce (Dnd); Ithaca, Oct 6 (*ShermCU*); McLean, Aug, Ringwood, Je-Jl (Dt); Warren, Sep (*ShermCU*); Peekskill (*Sherm*); White Plains, Ap (Sq); **SI**, Ap, Jl (L&D).
- 2572 **A.** *erythropterus* Say. Newport (NYS); Cranberry L., Je (H); Ithaca (*ShermCU*); West Pt. (Robn); Peekskill (*Sherm*); White Plains, Oct 25 (Sq); NYC (L&B); **SI** (L&D).

<sup>33</sup> The arrangement of species in *Agabus* follows Fall's paper on *A Review of the North American Species of Agabus*, published in 1922, and differs considerably from that in the Leng catalog.

- 2564 **A. discolor** Harr. Warren Co, *Sherm* (Fall); Cranberry L., Je (H); Buffalo, Jl 10, *MCV* (Fall); Washington Co, *Sherm* (Fall); W. Hebron (Lg).
- 2563 **A. confinis** Gyll. "NY" (Gyll); Washington Co, Aug (ShermCU).
- 2575 **A. anthracinus** Mann. Cranberry L., Je (H); White Plains, Sep (Sq).
- 2579 **A. nigroaeneus** Er. Ringwood, Je (Dt).
- 2580 **A. gagates** Aubé. Newport, Je (Yg); Cranberry L., Je-Jl (H); Ilion (NYS); Pike (NYS); E. Aurora, Jl, one in pond (Dnd); Chautauqua, *Thompson* (Sherm); Ithaca, Jl 30 (ShermCU); McLean, Aug, Ringwood, Jl (Dt); Esopus, Sep (AM); Poughkeepsie, May (NYS); West Pt. (Robn); Peekskill, in spring holes (Sherm); White Plains, Ap 20-Oct 4 (Sq); NYC (L&B); **SI**, Je-Aug (L&D).

## ILYBIOSOMA Crotch

- 2587 **I. bifarius** Kby. Buffalo (Z&R); Waterville, Je (Not); Karner, Ap (NYS); **LI**: Forest Pk., May (Sherm).

## ILYBIUS Erichson

- 2590 **I. pleuriticus** Lec. Cranberry L., Je (H).
- 2593 **I. quadrimaculatus** Aubé. Peekskill (L&B). This determination should be verified (Fall).
- 2594 **I. ignarus** Lec. Peekskill, Jl 26, in a woodland pool (Sherm); **SI** (Sherm).
- 2595 **I. angustior** Gyll. Cranberry L., Je (H).
- 2598 **I. biguttulus** Germ. Keene Val., Jl (NYS); Saranac Inn, Jl (NYS); Newport, Je (Yg); Cranberry L., Je-Aug (H); Mooers, Sep (Not); Buffalo (Z&R); Pike (NYS); E. Aurora, Aug-Sep, frequent in ponds (Dnd); Oneida Co, Jl 11, *Cims* (Dt); Ithaca, Je-Aug (ShermCU); Ringwood, Jl 7 (Vdyk); Windsor, Je (Not); W. Hebron, Je (Lg); Albany, Je (Yg); Wingdale (Sherm); Kaaterskill (Sherm); Peekskill (Sherm); White Plains, May 11-Nov 11 (Sq); near NYC (L&B); **SI**, Feb, May-Oct (L&D).
- 2600 **I. confusus** Aubé. Sodus Pt., Je (Not); Ithaca, May 4 (ShermCU); Valley Falls, May (NYS); Esopus, Sep (Sherm); Kaaterskill (Sherm); Bear Mt. L., Jl (Sherm); White Plains, Je 6-Jl 11 (Sq); NYC (AM); **SI**, Jl (L&D).
- 2601 **I. oblitus** Shp. Cranberry L. (H); Buffalo, Je, Esopus, Sep (AM); White Plains, Sep-Oct (Sq).

## AGABETES Crotch

- 2602 **A. acuductus** Harr. Ausable Pt., Sep 23 (Not); Warren Co (Sherm); Buffalo (Z&R); Ringwood, Je (Dt); West Pt. (Robn); Peekskill, May-Je (ShermCU); White Plains, Mar 30-May 3 (Sq); **SI**, May-Jl, Sep (L&D); **LI**: Forest Pk. (Sherm). Usually in woodland pools (Sherm).

## MATUS Aubé

- 2603 **M. bicarinatus** Say. Warren Co, Aug (Sherm); Nassau, Ap (NYS); West Pt. (Robn); Peekskill, May, Jl, Sep (ShermCU); White Plains, Mar 12-Nov 11 (Sq); near NYC (L&B); **SI**, May (AM); **LI**:

Orient, J1 (NYS). Usually in woodland pools, and has been taken in various localities in very moist and damp mossy places in the woods where there is usually very little water, this species being a crawler rather than a swimmer (Sherm).

#### COPELATUS Erichson

- 2605 **C. glypticus** Say. Syracuse, Ap (H); Cazenovia Cr., E. Aurora, Sep (Dnd); Waterville, Je (Not); Westfield, May (Not); Ithaca, J1 24 (ShermCU); McLean, J1 (Dt); Karner, Mar (NYS); Esopus, Sep (Sherm); West Pt. (Robn); Peekskill (Sherm); **SI**, Ap-May, Aug (L&D); **LI**: E. New York, Je (Ds). Under stones, logs, etc., on muddy shores of river at Peekskill and Esopus, between tide lines (Sherm).

#### COPTOTOMUS Say

- 2610 **C. interrogatus** Fab. Keene Val., J1 (NYS); Cranberry L., May 15 (H); Syracuse, Ap (H); Olcott, J1 (Dt); Batavia, J1 (Kngt); Buffalo (Z&R); E. Aurora, J1, Sep, common in ponds (Dnd); Castile, *Brad* (Flet); Avon, Jan (Cls); Canandaigua, J1 (NYS); Ithaca, Ap, Oct (ShermCU); Karner, J1 (NYS); W. Hebron, Je (Lg); Esopus, Sep (AM); West Pt. (Robn); Peekskill (Sherm); Bear Mt. (Sherm); White Plains, Mar 12-Nov 11 (Sq); near NYC (L&B); **SI**, Ap, Je-Oct (L&D); **LI**: Forest Pk. (Sherm).

#### SCUTOPTERUS Crotch<sup>34</sup>

- 2612 **S. angustatus** Lec. Adirondacks, *Not* (Sherm).

#### RHANTUS Lacordaire

- 2616 **R. binotatus** Harr. Keene Val., J1 (NYS); Newport, May (Yg); Cranberry L., Je (H); Sodus Pt., Je (Not); E. Aurora in Cazenovia Cr., one, Sep (Dnd); Buffalo (Z&R); Westfield, May (Not); Ithaca, Aug-Sep, Ringwood, Je (Dt); Albany, May, Karner, J1 (Yg); Delmar, May (NYS); Esopus, Sep, *Sherm* (AM); White Plains, Mar 4-Oct 2 (Sq); NYC (AM); **SI**, Ap (L&D).
- 2619 **R. calidus** Fab. Occurs in N. and S. Am. from Me. (Peak I.) to Brazil (Sherm). Peekskill, Aug (Sherm); near NYC (L&B); **SI**, May (L&D); **LI**: Rockaway Beach (AM).
- 2620 **R. sinuatus** Lec. Peekskill (Sherm); **SI** (Sherm); **LI** (Sherm).
- 2623 **R. bistriatus** Bergst. E. Concord, Aug, one in a weedy pond (Dnd); Ithaca, Sep (Dt); Wingdale (Sherm); White Plains, Sep (Sq).
- 2624 **R. tostus** Lec. Pike, Ap (NYS); Ithaca, J1 12 (ShermCU); Karner, Ap (NYS); **LI**: Forest Pk. (Sherm).

#### COLYMBETES Clairville

- 2632 **C. sculptilis** Harr. Ogdensburg, Je (NYS); Gloversville, May (NYS); Oswego, Je, *Bks* (NYS); Syracuse, Ap (H); Pike (NYS); Buffalo (Z&R), Je (Dnd); E. Aurora, Je-Sep, common in ponds (Dnd); Avon,

<sup>34</sup> The species of this genus live in sphagnum pools in the deep forests of the North (L. Superior, White Mts., Adirondacks, and Hudson Bay), and fly considerable distances but are very sluggish in the water (Sherm).

Nov-Dec, Geneva, Mar (Cls); Ithaca, Ap-May, Jl-Aug, Oct (ShermCU); Albany, Karner, Je (NYS); Hermitage, Jl (Mat); White Plains, Mar 30-Oct 11 (Sq); NYC (AM); **SI**, Ap-Je (L&D); **LI** (Sherm).

## SUBFAMILY DYTISCINAE

## DYTISCUS Linnaeus

- 2636 **D. fasciventris** Say. Oswego, Oct, *Bks* (NYS); Buffalo (Z&R); E. Aurora, Sep, in ponds, scarce (Dnd); Avon, Dec (Cls); Batavia, Jl (Kngt); Canandaigua L., Jl 11 (ShermCU); Canandaigua (NYS); Ithaca, Je-Aug (ShermCU); Utica, Nov (LintNYS); Washington Co (Sherm); Albany, Oct (LintNYS); Chatham, Nov (NYS); West Pt. (Robn); Peekskill (Sherm); White Plains, Oct (Sq); NYC (L&B); **SI**, Ap, Je, Nov (L&D); **LI**: Orient Pt. (NYS); Astoria (AM).
- 2637 **D. hybridus** Aubé. Keene Val., Nov (Not); Oswego, Oct, *Bks* (NYS); Olcott, Jl (Dt); Buffalo (Z&R); Pike (Sherm); Niagara R., May (Dnd); Canandaigua, Jl (NYS); Orchard Pk., Jl (NYS); Ithaca, Jl-Aug, Oct (ShermCU); McLean, Oct 21 (ShermCU); West Pt. (Robn); White Plains, Mar 19-Sep 6 (Sq); NYC (L&B); **SI**, Jl, Sep-Oct (L&D).
- 2638 **D. verticalis** Say. Keene Val., Saranac Inn, Jl (NYS); Gloversville, Sep (NYS); E. Aurora, Buffalo, Aug, frequent (Dnd); Pike (NYS); Canandaigua L., Jl (NYS); Ithaca, Jl-Aug, Oct (ShermCU); McLean Bogs, Aug (Vdyk); Albany, Aug, Nassau, Jl (NYS); Esopus, Peekskill (Sherm); West Pt. (Robn); White Plains, Oct (ShermCU); Van Cort. Pk., Aug (ShermCU); NYC (L&B); **SI**, Mar-May, Jl (L&D); **LI**: Forest Pk. (Sherm).
- 2641 **D. marginalis** L. Avon, Dec (Cls); Canandaigua, Jl, Pike, Ap (NYS); Ithaca, Sep (Dt); Pittstown, Je (ShermNYS).
- 2645 **D. dauricus** Gebl. Ithaca, Aug 28 (ShermCU).
- 2646 **D. harrisii** Kby. Adirondacks, Sep (Eng); Wells, Aug (NYS); Olcott, Jl (Dt); Buffalo (Z&R); E. Aurora, Jl, in ponds, scarce (Dnd); Aurora, Ap, *Bish* (NYS); Johnsburg, Sep (NYS); Caledonia Cr., Dec (Lec); Geneva, Jl (LintNYS); Ithaca, Jl, Oct (ShermCU); McLean, Oct 21 (ShermCU); Hadley, Feb (NYS); Utica, May, Chatham, Nov (NYS); East Branch, Aug, *Ds* (Ang); Saratoga Sps., Oct (LintNYS); **LI**: Forest Pk. (Eng).

## SUBFAMILY HYDATICINAE

## HYDATICUS Leach

- 2647 **H. stagnalis** Fab. Buffalo (Z&R); Ithaca, Mar, Aug (Dt); New Salem, Ap, *Bish* (NYS); Karner, Jl (NYS); Peekskill, Sep (Sherm); White Plains, Ap (Sq); near NYC (L&B); **SI**, Ap-May (L&D).
- 2648 **H. laevipennis** Thom. Syracuse, May (H).
- 2649 **H. piceus** Lec. Ithaca, Sep (Dt); West Pt. (Robn); Peekskill (Sherm); White Plains, Ap 22-May 20 (Sq); Van Cort. Pk., Oct (Lg); **SI**, Ap, Je, Aug, Oct (L&D).
- 2650 **H. bimarginatus** Say. Near NYC (L&B); **SI**, Je (L&D).



## ACILIUS Leach

- 2651 **A. fraternus** Harr. (*semisulcatus* Aubé, acc. Sherman). Mt. Marcy, Keene  
 2652 Val., Saranac Inn, J1 (NYS); Wilmington, Aug (Dt); Cranberry L.  
 (H); Pike, Ap (NYS); Syracuse, May (H); Sodus Pt., Je (Not);  
 Batavia, Je (Kngt); E. Aurora, Buffalo, Je, Sep, common in ponds  
 (Dnd); Canandaigua L., J1 (NYS); Livingston Co, Dec (Lec);  
 Geneva, Avon, Dec (Cls); Westfield, May (Not); Ithaca, Sep (Dt),  
 Oct (Sherm); McLean, Aug (Dt); Karner, May (NYS); Esopus,  
 Sep (AM); West Pt. (Robn); Peekskill (Sherm); White Plains,  
 J1-Nov (Sq); **SI**, Ap-May, Oct-Nov (L&D).
- 2653 **A. mediatu**s Say. Ithaca, Aug 28 (ShermCU); Peekskill, Sep (Sherm);  
**SI**, Ap-Aug (L&D).

## THERMONECTES Crotch

- 2654 **T. ornaticollis** Aubé. Ithaca, J1 18, *Stedman* (ShermCU); NYC (L&B).  
 2655 **T. basilaris** Harr. Buffalo (Z&R); Canandaigua L., J1 (NYS); Ithaca,  
 Sep (Dt); Karner, May (NYS); Peekskill (Sherm); White Plains,  
 Oct (Sq); NYC (AM); Van Cort. Pk. (SI Mus); **SI**, Ap-May,  
 J1-Oct (L&D); **LI**: Brooklyn, May (Ds).

## GRAPHODERES Thomson

- 2659 **G. liberus** Say. Syracuse, May (H); Buffalo (Z&R); Ithaca (ShermCU);  
 McLean, Aug (Dt); Oneida, Je 29, *Clms* (Dt); Peekskill (Sherm);  
 White Plains, Mar 12-Oct 15 (Sq); NYC (L&B); **SI**, Ap-May, Aug  
 (L&D); **LI**: Forest Pk. (Sherm).
- 2660 **G. cinereus** L. Ithaca (Dt); McLean, Aug (Dt); West Pt. (Robn); NYC  
 (L&B); **SI**, Ap, Je, Aug (L&D); **LI**: Astoria (AM).

## SUBFAMILY CYBISTERINAE

## CYBISTER Curtis

- 2667 **C. fimbriolatus** Say. Oswego Co, Je, *Bks* (NYS); Ithaca, Aug-Sep  
 (ShermCU); West Pt. (Robn); White Plains, Sep 2 (Sq); Van Cort.  
 Pk. (SI Mus); NYC (L&B); **SI**, May, Aug (L&D); **LI**: Orient Pt.  
 (NYS).

FAMILY GYRINIDAE<sup>35</sup>

## DINEUTES MacLeay

- 2671 **D. vittatus** Germ. Ithaca (AM); Poughkeepsie (NYS); White Plains,  
 Je-Oct (Ang, Sq); Putnam Co, May (Lg); Nyack, Oct (AM); Van  
 Cort. Pk., May (Lg); **SI**, Ap-Oct (L&D); **LI**: Yaphank (Ang).
- 2674 **D. discolor** Aubé. Mooers, Sep (Not); Oneida Co, *Clms* (Dt); Avon,  
 Geneva (Cls); Ithaca (Dt); L. George, Aug (AM); Windsor, Je  
 (Not); Schoharie, May-Je (Dt); Albany, Poughkeepsie (NYS);  
 White Plains, Je (Sq); NYC and vic. (AM); **SI** (L&D); **LI**:  
 Cypress Hills, Babylon, May-Je (AM).

<sup>35</sup> H. C. Fall has kindly read the manuscript for this list, and has made some changes in synonymy and added some records.

- 2679 **D. nigrior** Robts. Ithaca, Sep (Dt); White Plains, May-Oct (Sq); NYC and vic. (AM); **SI** (L&D); **LI**: Astoria (AM); Deep Pond, Wading R., Jl, *Ds* (Fall).
- 2680 **D. americanus** Say (*assimilis* Kby.). Oneida Co, May-Je, *Cms* (Dt); Buffalo (Z&R); Sodus Pt., Je (Not); E. Aurora, Je, Sep, common (Dnd); Pike (NYS); Castile, *Brad* (Flet); Westfield, May (Not); Ithaca, Sep (Dt); W. Hebron, Rockland L. (Lg); West Pt. (Robn); White Plains, May-Je (Sq); Nyack, West Farms (AM); NYC and vic. (AM); **SI**, Ap-Oct (L&D); **LI**: Flatbush, Coney I., Cypress Hills, May-Sep (AM); Orient, *Lath* (NYS).
- 2681 **D. horni** Rbts. Axton (MacG); Saranac L. (AM); Sodus Pt., Je (Not); Spencer, Aug (Dt); Ithaca (AM); Peekskill (Pollard); White Plains, May-Aug (Sq); Van Cort. Pk. (AM); **SI**, Ap-Oct (L&D).
- 2682 **D. emarginatus** Say. Poughkeepsie (NYS); Putnam Co, May (Lg); Peekskill (Pollard); **SI**, May-Oct (L&D).

**GYRINUS** Geoffroy <sup>35a</sup>

- 2684 **G. minutus** Fab. (*rockinghamensis* Lec.). Pike (NYS); Catskills, *Pears* (AM).
- 2685 **G. confinis** Lec. Chaumont R.; Waddington, Ausable Pt. (Fall); Mooers, Sep, Sodus Pt., Je (Not); Buffalo (Z&R).
- 2686 **G. fraternus** Coup. Sodus Pt., May-Je, Westfield, May (Not); Carmel, Aug, *Sq* (Fall); E. Aurora, May, Sep, scarce (Dnd); West Pt. (Robn); White Plains (Fall, Sq); **SI**, Ap-May (L&D); **LI**: Amagansett, Sep, Riverhead (Fall).
- 2687 **G. aeneolus** Lec. Rochester (Regimbart); Buffalo (AM); Ithaca, Je (Frost, Vdyk); Esopus; Pine L., Windsor (Fall); West Pt. (Robn); NYC and vic. (NotAM); **SI** (Lg).
- 2688 **G. limbatus** Say. Not identified by Fall; records are under his *latilimbus* (Lg). Hamilton Co, Sodus Pt., Je, Mooers, Sep, Windsor, Je (Not); Ulster L. (Ds); White Plains (Fall, Sq); **LI**: Rockaway Beach, Je (Ds).
- **G. latilimbus** Fall. Ithaca (Fall); White Plains, Oct, *Sq* (Fall); Ramapo Mts. in AM as *borealis* (Fall); NYC and vic. (NotAM); **SI**, Oct (Woodr). If *limbatus* Say is the same, it occurs also in western NY.
- 2689 **G. dichrous** Lec. (*fratellus* Not.). Mooers, May, Windsor, Je (Not); Chaumont R.; Pine L., Je (Lg); White Plains (Fall, Sq); NYC (L&B).
- **G. fraterculus** Not. (*dichrous* Fall). Mooers, Sep (Not).
- 2690 **G. elevatus** Lec. **SI** (L&D). Fall gives no localities for this species except Harris Coll. It is possible that specimens heretofore called *elevatus* are *woodruffi* Fall.
- 2691 **G. ventralis** Kby. Newport, Pike (NYS); Ithaca (Fall); Chaumont R. (Fall); Peekskill (NotAM); White Plains (Fall, Sq); Van Cort. Pk. (AM); NYC and vic. (NotAM); **SI**, Mar-Aug (L&D); **LI**: Riverhead (Fall).
- 2692 **G. aquiris** Lec. Ausable Pt.; Crown Pt.; Chaumont R.; Westfield, May (Not); Ithaca; Tivoli; White Plains, Sep, *Sq* (Fall); NYC and vic. (AM); **SI** (Fall).

<sup>35a</sup> The sequence of species in *Gyrinus* is that of Leng's catalog, which differs from the arrangement in Fall's paper in Trans. Am. Ent. Soc. 47:269-306, 1922.

- 2695 **G. maculiventris** Lec. Mooers, Sep (Not); Buffalo (Z&R); Westfield, May (Not); Ithaca (Fall); McLean, May (Fall).  
 — **G. falli** Not. Mooers, Sep (Not).  
 2696 **G. affinis** Aubé. Mt. Marcy, Keene Val. (Fall); Sodus Pt., May-Je, Westfield, May (Not); Ithaca; West Pt. (Robn); **SI** (L&D).  
 2699 **G. pernitidus** Lec. Not rare from Me. to N.J. (Fall). West Pt. (Robn); Ramapo Mts. (AM); **SI** (AM); **LI**: Amagansett, Sep (Ds).  
 2700 **G. analis** Say. Sodus Pt., May-Je (Not); Buffalo (Z&R); E. Aurora, Je, one specimen (Dnd); Ithaca (Fall); Putnam Co (Lg); West Pt. (Robn); Ramapo Mts. (AM); **SI**, May-Aug (L&D).  
 2705 **G. marinus** Gyll. L. George, Aug (AM); White L., Jl, *Zab* (AM); Nyack, Oct, *Zab* (AM); **SI** (Robts Coll.); **LI**: Flatbush, Ap-May, *Zab* (AM); Fishers I., Aug (AM).  
 2707 **G. borealis** Aubé. Axton (MacG); Oneida Co, May, Aug, *Clms* (Dt); Ithaca (Fall); West Pt. (Robn); White Plains, Oct, *Sq* (Fall); **SI** (L&D).  
 2707a **G. borealis** var. *lugens* Lec. (*falli* Not.). The commonest *Gyrinus* (Fall). Keene Val., Mt. Marcy, Jl, *Not* (Fall); Crown Pt.; Hamilton Co (Ds); Ithaca, McLean, May; Westchester Co; White Plains (Fall, Sq); **SI** (L&D); **LI**: Riverhead.  
 — [*G. picipes* Aubé, 2704. Confined to the Pacific district according to Fall. Has been often cited from NY, the specimens possibly being *lugens* Lec.]  
 — **G. frosti** Fall. Ithaca (Fall); **SI** (AM) as *gibber* Lec. goes here (Fall); also specimens from White L. (AM), L. George, Nyack, **SI**, and **LI** (Fishers I.), all as *opacus* Sahlb., go here according to Fall.  
 — **G. woodruffi** Fall. Willow Br.; **SI**, Je 14, *Woodr*, type (L&D).  
 — **G. bifarius** Fall. Waterville, Je, Ithaca (Fall).  
 — **G. pugionis** Fall. Chaumont R. (Fall).

## FAMILY HYDROPHILIDAE

## SUBFAMILY HYDRAENINAE

## OCHTHEBIUS Leach

- 2718 **O. tuberculatus** Lec. Cayuga L. Basin (Rich); **SI**, Jl (L&D).  
 2726 **O. holmbergi** Mann. Cayuga L. Basin (Rich).

## HYDRAENA Kugelann

- 2729 **H. pennsylvanica** Kies. Mooers, Sep (Not); Oneida Co, Jl 14, *Clms* (Dt); Olcott, Jl (Dt); Cayuga L. Basin (Rich); West Pt. (Robn); **SI** (L&D).  
 — **H. angulicollis** Not. Westfield, May (Not).

## SUBFAMILY LIMNEBIINAE

## LIMNEBIUS Leach

- 2737 **L. discolor** Csy. Westfield, May (Not); Cayuga L. Basin (Rich).

## SUBFAMILY HELOPHORINAE

## HELOPHORUS Fabricius

- 2739 *H. tuberculatus* Gyll. Buffalo (Z&R); **SI**, J1 19 (L&D).  
 2740 *H. inquinatus* Mann. Mooers, Sep, Sodus Pt., Je., Schoharie (Not).  
 2743 *H. lacustris* Lec. Syracuse, Ap, flying (H); Buffalo (Z&R); E. Aurora, J1-Sep, frequent in brooks (Dnd); Cayuga L. Basin (Rich); NYC (L&B).  
 2744 *H. obscurus* Lec. **SI**, Je (L&D). According to Winters this should replace *lacustris*.  
 2745 *H. nitidulus* Lec. E. Aurora, Williamsville, Clarence, J1-Aug, common (Dnd); Cortland Co, J1-Aug, common (Dnd).  
 2746 *H. linearis* Lec. Cranberry L., Je 23 (H); Syracuse, May, in cedar and sphagnum bog (H); E. Aurora, J1, scarce (Dnd); Cayuga L. Basin (Rich); Ithaca, May-Sep (Dt).  
 2748 *H. granularis* L. Cayuga L. Basin (Rich).  
 2749 *H. obsoletesulcatus* Mots. "NY."  
 2750 *H. lineatus* Say. Newport, Je (NYS); Cranberry L., Je 23 (H); Mooers, Sep (Not); Syracuse, Ap-May, in pond (H); Buffalo (Z&R); E. Aurora, Aug, scarce (Dnd); Schoharie (Not); Ithaca, J1-Aug (Dt); Albany, Ap (NYS); Karner, May (Yg); West Pt. (Robn); NYC (L&B); **SI**, Jan, May-Je (L&D).  
 — *H. viridicollis* Steph. Cayuga L. Basin (Rich).

## SUBFAMILY HYDROCHINAE

## HYDROCHUS Leach

- 2754 *H. scabratus* Muls. Cayuga L. Basin (Rich); West Farms (AM); NYC (L&B); **SI**, May, Aug (L&D); **LI** (Muls).  
 2758 *H. inaequalis* Lec. Cranberry L., Je 23 (H); West Pt. (Robn); NYC (L&B); **SI**, Ap-May, Sep (L&D); **LI**: Cold Sp. Harb., Aug 6 (H).  
 2759 *H. excavatus* Lec. Mooers, Sep, Sodus Pt., Je (Not); E. Aurora, Sep, frequent in brooks (Dnd); Cayuga L. Basin (Rich).  
 — *H. laticollis* Not. Mooers, Sep (Not).  
 2760 *H. rufipes* Lec. **LI** (Winters).  
 2761 *H. subcupreus* Rand. Cranberry L., Je 23 (H); Buffalo (Z&R); Pike, J1 (NYS); Caledonia Cr., Dec (Lec); Westfield, May (Not); Albany, May, Kinderhook, Je (NYS); NYC (L&B); **SI**, Ap (L&D); Rockaway Beach (AM); Cypress Hills, May, *Zab* (AM).  
 2762 *H. granulatus* Blatch. **LI** (Winters).  
 2764 *H. squamifer* Lec. Mooers, Sep (Not); Buffalo (Z&R); Pike, J1 (AM); Cayuga L. Basin (Rich); McLean, Aug (Dt); **LI** (Lec).  
 2767 *H. simplex* Lec. Buffalo (Z&R); Washington Co (AM); **SI** (AM).

## SUBFAMILY HYDROPHILINAE

## BEROSUS Leach

- 2774 *B. aculeatus* Lec. Mooers, Sep (Not); **SI**, Je 30 (L&D).  
 2776 *B. pantherinus* Lec. West Pt. (Robn); NYC (L&B).

- 2777 **B. peregrinus** Hbst. Cranberry L., Je 18 (H); Buffalo (Z&R); Ithaca, Jl, McLean, Aug (Dt); Cayuga L. Basin (Rich); Washington Co (AM); West Pt. (Robn); NYC (L&B); **SI**, Ap-May (L&D); **LI**: Fishers I., Aug (AM).
- 2781 **B. exiguus** Say. **LI** (Winters).
- 2782 **B. pallescens** Lec. "NY" (Lec).
- 2783 **B. infuscatus** Lec. West Pt. (Robn); "NY" (AM).
- 2784 **B. striatus** Say. Essex Co, Aug (NYS); Cranberry L., Je (H); Syracuse, Ap-May, in cedar and sphagnum bog (H); Mooers, Sep, Sodus Pt., Je (Not); Buffalo (Z&R); E. Aurora, Jl, Sep, frequent (Dnd); Westfield, May (Not); Cayuga L. Basin (Rich); Ithaca, Aug (NYS); Ringwood, McLean, Jl-Sep (Dt); West Pt. (Robn); White Plains, Ap 9-Sep 2 (Sq); NYC (L&B); **SI**, Ap-Aug (L&D).

## HYDROUS Dahl

- 2789 **H. triangularis** Say. Buffalo, Aug, at light (Dnd, Z&R); Pike, Jl (NYS); Avon, Geneva, Sep (Cls); Cayuga L. Basin (Rich); Ithaca, Jl-Sep (Rich); Albany, Jl (NYS); New Baltimore, *Zab* (AM); West Pt. (Robn); White Plains, Aug 30 (Sq); Port Jervis (Lint); NYC (AM); **SI**, May, Aug-Oct (L&D); **LI**: Cypress Hills, Je (AM); Huntington, Ap (AM); Rockaway, Aug, *Zab* (AM); Babylon, Jl (AM); Flatbush, Ap (AM).

## DIBOLOCELUS Regimbart

- 2792 **D. ovalis** Ziegl. West Pt. (Robn); **SI** (L&D).

## HYDROPHILUS DeGeer

- 2795 **H. obtusatus** Say. Mooers, Sep (Not); Cranberry L., Je 18 (H); Syracuse, Ap-May, in ponds and bogs (H); Olcott, Jl (Dt); Buffalo (Z&R); Pike, Ap (NYS); Castile, *Brad* (Flet); E. Aurora, Jl-Oct, common in pools (Dnd); Avon, Mar (Cls); Cayuga L. Basin (Rich); Ithaca, Aug (Vdyk); Ringwood, Je (Dt, Rich); Hermitage, Jl (Mat); West Pt. (Robn); West Farms, Van Cort. Pk., May (AM); NYC (L&B); **SI**, Mar-Aug, Dec (L&D); **LI**: Babylon, Je (AM); Flatbush, May (AM); Cypress Hills, May, *Zab* (AM); Orient, *Lath* (NYS).

## TROPISTERNUS Solier

- 2797 **T. striolatus** Lec. "NY" (Sharp).
- **T. blatchleyi** Orych. (*sublaevis* Blatch. not Lec.). Syracuse, May, in sphagnum bog (H).
- 2805 **T. glaber** Hbst. Mooers, Sep (Not); Pike, Jl (NYS); Olcott, Jl (Dt, Richmond); Buffalo (Z&R); E. Aurora, Jl 9, common (Dnd); Syracuse, May, in sphagnum bog (H); Cattaraugus Co, Jl (Ds); Avon, Dec-Jan, Geneva, Sep (Cls); French's Mill, Je (NYS); Canandaigua L., Jl (NYS); Westfield, May (Not); Cayuga L. Basin (Rich); Ithaca, Jl (Vdyk); Windsor, Je (Not); Albany, Ap (NYS); West Pt. (Robn); White Plains, Mar 30-Nov 2 (Sq); Nyack, Oct, *Zab* (AM); NYC (L&B); **SI**, Je (L&D); **LI**: Babylon, Je (AM); Flatbush, Ap, Oct, *Zab* (AM); Cypress Hills, Sep (AM); Calverton, Sep (Ds); Fishers I., Aug (AM); Orient, *Lath* (NYS).



- 2806 **T. mixtus** Lec. Essex, Jl (NYS); Cranberry L., Je-Jl (H); Mooers, Sep, Sodus Pt., Je (Not); Olcott, Ap (Dt); Buffalo, Je-Sep, common (Dnd); E. Aurora (Dnd); Oneida Co, Sep, *Clms* (Dt); Westfield, May (Not); Cayuga L. Basin (Rich); Ithaca, Jl 12 (Vdyk); West Pt. (Robn); White Plains, May 20-Oct 13 (Sq).
- 2807 **T. lateralis** Fab. Syracuse, Oct, in pond (H); Buffalo (Z&R); E. Aurora, Aug-Sep, common (Dnd); Buffalo (Z&R); Batavia, Jl (Kngt); Cayuga L. Basin (Rich); Ithaca, Aug (NYS); West Pt. (Robn); Tomkins Cove, Aug (AM); White Plains, Mar 21-Oct 13 (Sq); NYC (L&B); Van Cort. Pk., Aug, West Farms (AM); **SI**, Ap-Aug (L&D); **LI**: Flatbush, Ap, Babylon, Je-Jl, Cypress Hills, May, Fishers I., Aug (AM).
- **T. quadristriatus** Horn. **LI** (Winters).

## HYDROBIUS Leach

- 2808 **H. fuscipes** L. Newport, Je (NYS); Mooers, Sep (Not); Olcott, Ap, Je (Dt); Pike, Ap (NYS); Oneida Co, *Clms* (Dt); Syracuse, Ap-May, in pond and in sphagnum bog (H); Buffalo (Z&R); E. Aurora, Aug, rare (Dnd); Westfield, May (Not); Cayuga L. Basin (Rich); Ringwood, Je (Dt); Hermitage, Jl (Mat); Albany, Oct (Yg); Karner, May (NYS); White Plains, Jl 26 (Sq); **SI**, May (L&D).
- 2809 **H. tumidus** Lec. "NY" (Lec).
- 2810 **H. globosus** Say. Adirondacks, Sep (Eng); Olcott, Mar (Dt); Livingston Co, Dec (Lec); Buffalo (Z&R); Oneida Co, Je-Aug, *Clms* (Dt); Cayuga L. Basin (Rich); Ithaca, Ap (MatCU); McLean, Aug (Dt); Michigan Hollow, May (MatCU); West Pt., Sep (AM); White Plains, Ap, Sep (Sq); Van Cort. Pk., Sep (AM); **SI**, Feb, May-Je (L&D).
- 2813 **H. tessellatus** Zimm. Hunt's Pt., NYC (L&B).

## ANACAENA Thomas

- 2814 **A. infuscata** Mots. Cranberry L., Je 23 (H); Mooers, Sep (Not); Syracuse, Ap-May, in ponds and bogs (H); Sodus Pt., Je (Not); Olcott, Je-Oct (Dt); Erie Co, Je, Aug, common in brooks (Dnd); Oneida Co, Jl-Sep, *Clms* (Dt); Westfield, May (Not); Cayuga L. Basin (Dt, Rich); Ringwood, McLean, Je-Oct (Dt, Rich).

## PARACYMUS Thomas

- 2817 **P. suturalis** Lec. Peekskill (L&B); West Pt. (Robn).
- 2818 **P. despectus** Lec. E. Aurora, Aug-Sep, rare (Dnd); Livingston Co, Dec (Lec).
- 2819 **P. subcupreus** Say. Cranberry L., Je 23 (H); Syracuse, Ap-May, in ponds and bogs (H); Mooers, Sep, Sodus Pt., Je (Not); Olcott, Je-Oct (Dt); Oneida Co, Je, Aug, *Clms* (Dt); Cayuga L. Basin (Rich); McLean, Ringwood, Je-Oct (Dt, Rich); West Pt. (Robn); **SI**, Feb-Apr (L&D); **LI** (AM).
- 2825 **P. digestus** Lec. Cranberry L., Je (H); Pike (NYS); Niagara (Lec); Westfield, May (Not); West Pt. (Robn).

## CRENITIS Bedel

- 2827 *C. monticola* Horn. Catskills, *Nic* (Winters).

## HELOCHARES Mulsant

- 2828 *H. maculicollis* Muls. Buffalo (Z&R).

## ENOCHRUS Thomson

- 2834 *E. nebulosus* Say. Syracuse, May, in cedar bog (H); Mooers, Sep, Sodus Pt., Je (Not); Olcott, Jl (Dt, Rich); Buffalo (Z&R); E. Aurora, Aug, scarce (Dnd); Livingston Co, Dec (Lec); Cayuga L. Basin (Rich); Ithaca, Aug, Normanskill, May (NYS); NYC (L&B); **SI**, May (L&D); **LI**: Rockaway Beach (AM).
- 2835 *E. ochraceus* Melsh. Cranberry L., Je-Jl (H); Mooers, Sep (Not); Syracuse, May, in cedar and sphagnum bogs (H); Sodus Pt., Je (Not); Olcott, Jl-Sep (Dt); Pike, Aug (NYS); E. Aurora, Je-Sep, very common (Dnd); Buffalo (Z&R); Oneida Co, Aug 7, *Clms* (Dt); Cayuga L. Basin (Dt, Rich); Westfield, May (Not); Ithaca, Aug 9 (Vdyk); Ringwood, McLean, Jl-Sep (Dt, Rich); Albany, Aug (NYS); West Pt. (Robn); White Plains, May 3-Sep 2 (Sq); **SI**, Ap-May, Sep (L&D); **LI**: Rockaway Beach, Babylon, Jl (AM).
- 2836 *E. perplexus* Lec. Newport, Je (Yg); Syracuse, May, in cedar bog (H); Buffalo (Z&R); E. Aurora, Sep, scarce (Dnd); Westfield, May (Not); Cayuga L. Basin (Rich); McLean, Jl-Aug (Dt, Rich); Cortland Co, Jl, scarce (Dnd); Windsor, Je (Not); West Pt. (Robn); NYC (L&B); **SI**, Mar-Je, Sep, Dec (L&D); **LI**: Babylon, Cypress Hills, Je, Flatbush, May (AM).
- 2837 *E. cinctus* Say. Pike, Aug (NYS); Buffalo (Z&R); E. Aurora, May, Sep, scarce (Dnd); Cayuga L. Basin (Rich); Ithaca, Jl-Aug (Vdyk); McLean, Ringwood, Je, Aug (Dt, Rich); Windsor, Je (Not); West Pt. (Robn); White Plains, May 3-Aug 16 (Sq); NYC (L&B); **SI**, May (L&D); **LI**: Cypress Hills, May-Je, Babylon (AM).
- 2838 *E. consors* Lec. Cayuga L. Basin (Rich); Ithaca, McLean, Je-Jl (Dt, Rich).
- 2841 *E. hamiltoni* Horn. Cranberry L. (H); Mooers, Sep (Not); Syracuse, May, in cedar bog (H); E. Aurora, Je, Aug, common (Dnd); Sodus Pt., Je (Not); Oneida Co, Aug, *Clms* (Dt); Cayuga L. Basin (Rich); Ithaca, Aug 9 (Vdyk); West Pt. (Robn); NYC (L&B); **SI**, Ap-Je, Aug (L&D); **LI**: Rockaway Beach, Jl, Babylon (AM).
- 2843 *E. reflexipennis* Zimm. Livingston Co, Dec (Lec); NYC (L&B); **SI**, Ap-May (L&D); **LI**: Babylon (AM).

## CYMBIODYTA Bedel

- 2849 *C. rotunda* Say. West Pt. (Robn).
- 2850 *C. fimbriata* Melsh. Mooers, Sep (Not); Olcott, Sep (Dt, Rich); Buffalo (Z&R); Pike, Je (AM); E. Aurora, May-Aug, common (Dnd); Westfield, May (Not); Cayuga L. Basin (Rich); Windsor, Je (Not); White L., Jl, *Zab* (AM); West Pt. (Robn); NYC (L&B); **SI**, Mar, May, Aug (L&D); **LI**: Wyandanch, May (Ds).
- *C. minima* Not. Mooers, Sep (Not).

- 2851 **C. blanchardi** Horn. Olcott, Jl-Sep (Dt, Rich); E. Aurora, Jl, Sep, common (Dnd); Westfield, May (Not); Olivera, Sep, *Ds* (Not); Woodland, Oct (Ds); Windsor, Je (Not); Cayuga L. Basin (Rich); Watkins Glen (L&B); Van Cort. Pk. (AM); **LI**: Babylon (AM).
- 2852 **C. lacustris** Lec. Axton, Je (M&H); Buffalo (Z&R); E. Aurora, Aug, common (Dnd); Cayuga L. Basin (Rich); Cortland Co, Jl, common (Dnd); Schoharie (Not); NYC (L&B); **SI**, Mar (L&D).
- **C. vindicata** Fall. **SI**, type locality.

## HELOCOMBUS Horn

- 2853 **H. bifidus** Lec. Cranberry L., Jl (H); Mooers, Sep (Not); Buffalo (Z&R); E. Aurora, Jl-Sep, common (Dnd); Cayuga L. Basin (Rich); Ringwood, Je-Jl (Dt, Rich); Cortland Co, Jl-Sep, common (Dnd); West Pt. (Robn); White Plains, Ap 21-May 18 (Sq); NYC (L&B); **SI**, May, Jl (L&D).

## LACCOBIUS Erichson

- 2854 **L. agilis** Rand. Newport, Je (Yg); Syracuse, Ap, on clay bank (H); Mooers, Sep, Sodus Pt, Je (Not); Buffalo (Z&R); E. Aurora, Aug, common (Dnd); Livingston Co, Dec (Lec); Westfield, May (Not); Cayuga L. Basin (Rich); Cortland Co, Jl, common (Dnd); Oneida Co, May, Jl, *Cfms* (Dt); Windsor, Je (Not); Schoharie (Not); Suffern (AM); Albany, Je (Yg); NYC (L&B); **SI** (L&D).

## CHAETARTHRIA Stephens

- 2859 **C. atra** Lec. Westfield, May (Not); Cayuga L. Basin (Rich).

## SUBFAMILY SPHAERIDIINAE

## PHAENONOTUM Sharp

- 2864 **P. estriatum** Say. NYC (L&B).

## SPHAERIDIUM Fabricius

- 2867 **S. scarabaeoides** L. Axton, Je (M&H); Potsdam, Je-Aug (Houghton); Syracuse, May, on cattle dung (H); E. Aurora, Aug, common in manure (Dnd); Pike, May (NYS); Castile, May, *Brad* (Flet); Cayuga L. Basin (Rich); Ithaca, May (Houghton); Windsor, Je (Not); Catskills, Jl (Pears); West Pt. (Robn); West Farms (Sf); **SI**, May-Je (L&D); **LI**: E. New York, early May (Sf, Ds); Rockaway Beach, Wyandanch (Ds).
- 2868 **S. bipustulatum** Fab. E. Aurora, Aug-Sep, common in manure (Dnd); Cayuga L. Basin (Rich); West Pt. (Robn); **LI**: Brooklyn, May, *Shoe* (AM); E. New York, May (Sf).

## CERCYON Leach

- 2869 **C. littoralis** Gyll. **SI**, Je 5 (L&D); **LI**: Rockaway (L&B); Long Beach (L&B); Stony Pt., Sep (Winters); Coney I. (Horn).
- 2873 **C. unipunctatus** L. N. Fair Haven (Rich); McLean, Aug (Dt, Rich); Windsor, Je, Schoharie (Not); Ramapo, Je (Ds).

- 2875 *C. ocellatus* Say. Sodus Pt., Je, Schoharie (Not); Cayuga L. Basin (Rich); NYC (L&B).
- 2876 *C. praetextatus* Say. Buffalo (Z&R); Aug, scarce (Dnd); Cayuga L. Basin (Rich); **SI**, Ap-Je (L&D).
- 2878 ?*C. fulvipennis* Mann. Buffalo (Z&R). Determination doubtful; this is a West Coast species (Lg).
- 2879 *C. lateralis* Marsh. Syracuse, May, on cattle dung (H)?; **SI**, May 25, *Ds* (L&D).
- 2880 *C. indistinctus* Horn. Cranberry L., Je 30 (H); Newport, Je, Gloversville, Sep (NYS).
- 2883 *C. haemorrhoidalis* Fab. Potsdam (Houghton); Cranberry L., J1 (H); Syracuse, May, on cattle dung (H); Buffalo (Z&R); E. Aurora, Cortland Co, J1-Aug, common (Dnd); Cayuga L. Basin (Rich); West Pt. (Robn); **SI**, May (L&D).
- 2884 *C. melanocephalus* L. Syracuse, May, on cattle dung (H); E. Aurora, Aug, common (Dnd).
- 2885 *C. pygmaeus* Illig. Cranberry L., Je 25 (H); Cayuga L. Basin (Rich); **SI**, Je 7 (L&D).
- 2886 *C. nigriceps* Marsh. Ithaca, Sep (Dt, Rich); NYC (L&B).
- 2887 *C. convexiusculus* Steph. West Pt. (Robn) as *lugubris*.
- 2892 *C. navicularis* Zimm. Cayuga L. Basin (Rich); Peekskill (L&B).
- 2893 *C. analis* Payk. Newport, Je (Yg); Cranberry L., Je-J1 (H); West Pt. (Robn); **SI**, Ap, Je, Dec (L&D).
- *C. incrematus* Not. Windsor, Je (Not).
- *C. basillaris* Not. Windsor, Je (Not).

## OOSTERNUM Sharp

- 2894½ *O. pubescens* Lec. NY (Winters).

## CRYPTOPLEURUM Mulsant

- 2899 *C. minutum* Fab. Cranberry L., Je-J1 (H); Newport, May (NYS); Syracuse, Ap, a skeleton (H); Buffalo (Z&R); Cayuga L. Basin (Rich); Windsor, Je (Not); McLean, Aug (Dt, Rich); West Pt. (Robn); **LI** (AM).

## FAMILY BRATHINIDAE

## BRATHINUS LeConte

- 2903 *B. nitidus* Lec. Mt. Whiteface, 2000-4000 ft., Aug (CU); Slide Mt. Je, Oliverea, Sep (Ds); Peekskill, May, *Sherm* (AM, CU).
- 2904 *B. varicornis* Lec. Utica (Lec).

## FAMILY SILPHIDAE

## NECROPHORUS Fabricius

- 2911 *N. americanus* Oliv. Gloversville (NYS); West Pt. (Robn); Bronx (AM); NYC; **SI** (L&D); **LI**: E. New York, *Schott*; Yaphank, Sep (BM); Brooklyn, *Shoe*. May-Aug.

- 2912 **N. sayi** Lap. Wallface Mt.; Cranberry L.; L. Pleasant, Aug; Rochester; Ithaca (Dt); Batavia, Je-Jl (Kngt); Ft. Montgomery; NYC; **SI** (L&D); **LI**: Wyandanch; Babylon (AM); Montauk, beach wash-up, Jl (Ang); Bellport; Brooklyn (Shoe). Ap-Oct. On carrion.
- 2913 **N. orbicollis** Say. Wilmington (Ds); Cranberry L.; Rochester; Sodus Pt., Je (Not); Olcott (Dt); Buffalo (Z&R); Castile, Jl, *Brad* (Flet); Batavia, Je (Kngt); E. Aurora, Je (Dnd); Pike; Crosby (CU); Ithaca, McLean Bogs (Dt); L. George, *Zab* (AM); West Pt. (Robn); Ft. Montgomery; NYC; **SI** (L&D); **LI**: Bergen I., *Zab* (AM); Cold Sp. Harb.; Bellport; Yaphank, Jl (AM); Brooklyn, May (BM); Riverhead (Ds). May-Aug. On carrion.
- 2914 **N. marginatus** Fab. Rochester; Avon, Jl (Cls); Ithaca (Dt); Windsor, Je (Not); Kinderhook (CU); White Plains; Westchester Co; West Pt. (Robn); Ft. Montgomery, *Schott*; NYC; **SI** (L&D); **LI**: Aqueduct; Jamaica; Flushing; Long Beach; Flatbush; Bellport; Rockaway Beach; Gardiners I.; Brooklyn, Yaphank (BM).
- 2918 **N. pustulatus** Hersch. Cranberry L.; Rochester; Olcott; Buffalo; Ithaca; L. Pleasant (AM); NYC; **SI** (L&D); **LI**: Jamaica; Babylon; Riverhead (Ds); Yaphank (Ds); Bellport; Promised Land (BM); Amagansett; Good Ground; Gardiners I.; Orient, *Lath* (NYS). May-Sep.
- 2919 **N. vespilloides** Hbst. Thousand Isls.; Wallface Mt.; Wilmington; Rochester; Castile, Je, Sep, *Brad* (Flet); Cooks Falls; L. Pleasant (BM); Slide Mt., *Shoe*; Oliveria; **LI**: E. New York, Jl-Sep.
- 2920 **N. tomentosus** Web. Keene Val. (BM); Cranberry L.; Wilmington (Shoe); Olcott; Honeoye Falls (CU); Buffalo (Z&R); Pike; Castile, *Brad* (Flet); Batavia, Aug (Kngt); Ithaca (Dt); Albany (Lint); West Pt. (Robn); Ft. Montgomery; Yonkers; Peekskill; Nepperhan; Nyack; Mosholu; White Plains (Sq); **SI**, *Pollard* (L&D); **LI**: Cold Sp. Harb.; Bellport; Wyandanch; Huntington; Flatbush (BM). Je-Oct. On carrion.

## SILPHA Linnaeus

- 2922 **S. surinamensis** Fab. Wilmington (Ds); Long L. (Ds); Cranberry L.; Buffalo (Z&R); Batavia, Jl (Kngt); Montour Falls; Ithaca (Dt); Oliveria (Ds); West Pt. (Robn); **SI** (L&D); **LI**: Coney I., Bergen I., Flatbush (AM); Cold Sp. Harb.; Yaphank (BM); Brooklyn, *Dow*; Orient, *Lath* (NYS).
- 2923 **S. lapponica** Hbst. Axton (M&H); Wilmington (Ds, Shoe); Whiteface Mt. (Shoe); Cranberry L.; Syracuse (BM); Rochester Jct. (CU); Sodus Pt., Je (Not); Buffalo (Z&R); E. Aurora, May-Je (Dnd); Pike (AM); Montour Falls; Ithaca (Dt); **LI** (BM). May-Aug. On carrion.
- 2926 **S. inaequalis** Fab. Lowville (Ds); Avon (Cls); Sodus Pt., Je (Not); E. Aurora, May-Jl (Dnd); Batavia, Je (Kngt); Castile, *Brad* (Flet); Westfield, May (Not); Ithaca (Dt); Windsor, Je (Not); Halcottsville, New Baltimore (AM); Tuxedo (Ds); West Pt. (Robn); White Plains (Sq); NYC; **SI**, at willow sap (L&D); **LI**: Cold Sp. Harb.; Yaphank (BM); Babylon (AM); Jamaica, Forest Pk. (BM); Brooklyn (Shoe); Rockaway Beach, Center I. (Ds); Queens, *Dow*; Orient, *Lath* (NYS). Mar-Sep.



- 2927 **S. noveboracensis** Forst. Wilmington (Ds); Cranberry L.; Wanakena, Aug (Drk); Chateaugay L., 2000 ft. (AM); Syracuse; Olcott (Dt); Buffalo (Z&R); Avon (Cls); Castile, *Brad* (Flet); Batavia, JI (Kngt); E. Aurora, May (Dnd); Montour Falls; Canandaigua (CU); McLean Bogs; Windsor, Je (Not); West Pt. (Robn); New Baltimore, Mosholu (AM); NYC; **SI** (L&D); **LI**: Cold Sp. Harb.; Flushing; Queens, Pinelawn, *Dow*; Massapequa (Ds); Orient, *Lath* (NYS). Mar-Sep. On carrion.
- 2928 **S. americana** L. Wilmington, Conesus L. (Ds); E. Aurora, May-JI (Dnd); Cranberry L.; Buffalo (Z&R); Batavia, Je, on dead corn (Kngt); Ithaca; McLean Bogs (Dt); Albany (Lint); Cropseyville (NYS); Peekskill (Sherm); Avon (Cls); Hudson (BM); Sullivan Co (Ds); White Plains (Sq); West Farms (AM); **SI** (L&D); **LI**: Cold Sp. Harb.; Brooklyn (Shoe); Babylon; Montauk (Ds, Ang); Orient, *Lath* (NYS).
- 2930 **S. opaca** L. Buffalo (Z&R). Probably an error, since the species occurs in Siberia, Hudson Bay territory, and Calif. (Lg).

#### NECROPHILUS Latreille

- 2932 **N. pettiti** Horn. Cooks Falls, Sep, *Sue Davis* (H); Allegany Pk., JI (Dnd).

#### CHOLEVA Latreille

- 2947 **C. luridipennis** Mann. Keene Val., JI (Not).
- 2950 **C. simplex** Say. Olcott (Dt); Ithaca (Dt); Ludlow, Sep (Thompson); Keene Val., May, Je (Not); White Plains (Ang); **SI**, *Shoe* (L&D). Ap-Je.
- 2951 **C. basillaris** Say. Keene Val., May, JI (Not); Newport, on store cheese (Yg); L. Pleasant (AM); Ludlow (Thompson); Mosholu (BM); **SI** (L&D). Feb-Je.
- 2952 **C. clavicornis** Lec. Keene Val., JI, Sep (Not); Cranberry L., on decaying fungi; West Pt. (Robn); Mosholu (AM); Spuyten Duyvil, May (Ang); **LI**: Bellport (Nic).
- 2955 **C. terminans** Lec. Axton (M&H); Cranberry L.; L. Placid (BM); L. Pleasant (AM); Keene Val., May (Not); Olcott (Dt); Ithaca (Dt); Etna; Catskill, Ap (Lg); **SI**, on three occasions in owl pellets (L&D). Mar-Oct. On carrion.

#### PRIONOCHAETA Horn

- 2957 **P. opaca** Say. Keene Val., May (Not); Cranberry L., on carrion; L. Pleasant (AM); Olcott (Dt); Batavia, Je (Kngt); Gowanda, May (Dnd); Ithaca, Ringwood (Dt); Cortland Co, Je (Dnd); McLean, May, Je (Flet); Bangall (BM); Peekskill (Sherm); West Pt. (Robn); White Plains; Mosholu (BM); **SI**, *Shoe* (L&D); **LI**: Brooklyn (Shoe); Yaphank (BM). Ap-Sep.

#### PTOMAPHAGUS Illiger

- 2958 **P. consobrinus** Lec. Olcott (Dt); Ithaca (CU); West Pt. (Robn); Peekskill (Sherm); Mosholu (BM).
- 2964 **P. pusio** Lec. Buffalo (Z&R); Ithaca (Dt); West Pt. (Robn).

- 2965 *P. parasitus* Lec. Syracuse, under a stone, perhaps associated with ants; Olcott (Dt); Buffalo (Z&R); West Pt. (Robn); Peekskill (Sherm); Bronx Pk., *Sf* (AM); Bronxville, in nest of *Formica sericea*, *Wheel*; **SI** (L&D); **LI**: Jamaica (Shoe); Pinelawn (BM).  
 2967 *P. brachyderus* Lec. "NY" (Horn); Katonah, *Sherm* (CU); Mosholu (Lg).

## COLON Herbst

- 2970 *C. bidentatum* Sahlb. "NY", *Ulke* (Horn).  
 2973 *C. dentatum* Lec. Keene Val., J1 (Not).  
 2976 *C. putum* Horn. Keene Val., J1 (Not).  
 2977 *C. magnicolle* Mann. Keene Val., May (Not).  
 2978 *C. pusillum* Horn. Peekskill, Sep, *Sherm* (Sz).  
 2982 *C. asperatum* Horn. Windsor, Je (Not).

## SUBFAMILY ANISOTOMINAE

## HYDNOBIUS Schmidt

- *H. laticeps* Not. Schoharie (Not).  
 2991 *H. substriatus* Lec. Keene Val., J1 (Not).  
 2992 *H. latidens* Lec. Keene Val., Je-J1 (Not).

## ANISOSTOMA Illiger

- 2996 *A. alternata* Melsh. West Pt. (Robn); **SI**, Oct (L&D).  
 2998 *A. valida* Horn. Danby, Je, *AndersonEG* (Dt).  
 3000 *A. assimilis* Lec. Axton, Je (M&H); Keene Val., Je, Aug (Not); McLean, Je (Flet).  
 3001 *A. punctatostriata* Kby. Keene Val., May, J1 (Not); Windsor, Je (Not); E. Jewett, Aug (Lg).  
 3003 *A. collaris* Lec. Keene Val., J1 (Not).  
 3009 *A. obsoleta* Melsh. Keene Val., J1 (Not).

## COLENIS Erichson

- 3014 *C. impunctata* Lec. Keene Val., Aug, Oct (Not); E. Aurora, *Dnd* (Dt); West Pt. (Robn); Mosholu (BM); **SI** (L&D). May-Je.

## CYRTUSA Erichson

- 3015 *C. picipennis* Lec. Northern NY, *Ulke* (Lec); Keene Val., J1 (Not).  
 3018 *C. egena* Lec. Keene Val., J1 (Not).

## CAINOSTERUM Notman

- *C. imbricatum* Not. Westfield, May (Not).

## LEIODES Latreille

- 3021 **L. globosa** Lec. Keene Val., Je (Not); Peru (CU); Cranberry L. (H); Olcott (Dt). Je-Sep.
- 3022 **L. polita** Lec. **SI**, J1 (L&D).
- 3023 **L. discolor** Melsh. Axton (M&H); Buffalo (Z&R); E. Aurora, J1 (Dnd); Ithaca (Dt); Harrison (AM); **SI**, May-Je (L&D). Je.
- 3025 **L. obsoleta** Horn. Keene Val., J1 (Not); Sodus Pt., Je (Not); Olcott (Dt); Cortland Co, Je (Dnd); Windsor, Je (Not); **SI** (L&D). Je-Sep.
- 3026 **L. basalis** Lec. Keene Val., J1 (Not); E. Aurora, J1 (Dnd); Ithaca (Dt); **SI**, on slime mold (L&D); **LI**: Bellport, \*Babylon (BM). Je-Aug.
- 3026a **L. basalis** var. **dichroa** Lec. Buffalo (Z&R); Ithaca (Dt). Je.
- 3027 **L. geminata** Horn. Keene Val., J1 (Not); Cranberry L., Je, under bark (Dt, H); McLean, Je (Flet).

## AGATHIDIUM Illiger

- 3029 **A. oniscoides** Beauv. Cranberry L., from *Acer saccharum* and *Pinus strobus*; Olcott (Dt); Buffalo (Z&R); Harrison, Mosholu (AM); Katonah, Peekskill (Ang); **SI**, common under bark of dead trees, rolled into a ball (L&D); **LI** (BM). May-Sep.
- 3030 **A. exiguum** Melsh. Axton (M&H); Keene Val., Je-J1 (Not); Olcott, Ithaca (Dt); Peekskill (Sherm); West Pt. (Robn); Mosholu (AM); **SI** (L&D); **LI** (BM). May-Je.
- 3034 **A. revolvens** Lec. Keene Val., May-Je, Westfield, May (Not).
- 3043 **A. pulchrum** Lec. Keene Val., J1 (Not).
- 3044 **A. difforme** Lec. Cranberry L., J1 6; Keene Val., J1 (Not).

## AGLYPTINUS Cockerell

- 3045 **A. laevis** Lec. Olcott, Sep 10, Oct (Dt).

## FAMILY CLAMBIDAE

## CLAMBUS Fischer

- 3047 **C. gibbulus** Lec. Keene Val., May (Not).
- 3048 **C. puberulus** Lec. Keene Val., May (Not).

## FAMILY SCYDMAENIDAE

## SUBFAMILY SCYDMAENINAE

## EUCONNUS Thomson

- 3058 **E. ventralis** Csy. "NY" (Csy).
- 3059 **E. clavipes** Say. Peekskill, *Sherm* (AM); vic. NYC (AM); **LI**: Ap 16-May 2, *Shoe* (Nic); Jamaica, May 15 (Pears); Coney I., *Schott* (Nic).
- 3060 **E. consobrinus** Lec. "NY" (Lec); Ithaca, Mar (Lg).
- 3061 **E. semiruber** Csy. Sylvan Beach, Je (Not).

- 3063 **E. bicolor** Lec. Buffalo (Z&R); Peekskill (Sherm); **LI**: Ap 9-19, *Shoe* (Nic); Jamaica, *Sf*, *Dow*, *Pears* (Nic).  
 3064 **E. cavipennis** Csy. NY, *SmHH* (Csy).  
 3065 **E. occultus** Csy. Westfield, May (Not).  
 3067 **E. nigrescens** Csy. "NY" (Csy).  
 3068 **E. affinis** Csy. **LI**: Wyandanch, Ap 3, under pine bark (Nic).  
 3069 **E. gratus** Csy. Keene Val., Jl, Whitehall, Oct (Not).  
 3073 **E. salinator** Lec. **SI**, Mar, on salt meadows (L&D); **LI**: common in salt marshes; in early spring found along edge of snow; usually taken under boards and stones during May-Je (Nic); Brooklyn, *Dow* (Ds); Flatbush (Ds); Bellport, Je, Jamaica (BM).  
 3074 **E. haedillus** Csy. Keene Val., Je, Jl (Not).  
 3075 **E. fatuus** Lec. Keene Val., Je (Not); Schoharie (Not).

## PYCNOPHUS Casey

- 3080 **P. rasmus** Lec. Buffalo (Z&R); Mosholu (BM); **SI**, Mar-Ap (L&D); **LI**: Farmingdale, Ap, *Eng* (Nic).

## CONNOPHRON Casey

- 3085 **C. longipenne** Csy. **LI**: Yaphank (Not).  
 3087 **C. formale** Csy. **LI**: Yaphank (Not).  
 3090 **C. flavitarse** Lec. "NY" (Lec); **LI**: Rosedale, Ap, Wyandanch (Not).  
 3099 **C. fossiger** Lec. Buffalo (Z&R); **LI**: Jamaica, *Pears*, *Dow* (Nic); Huntington, Je 18, *Schott* (Nic); Flatbush, Ap 15, *Schott* (Nic); Wyandanch, Ap 30, *Dow*, *Shoe* (Nic); Brooklyn (Ds); Yaphank, May, Newtown, Ap (BM).  
 3101 **C. brevicorne** Say. **LI**: Wyandanch, Ap 3, Oct 30, not rare in sphagnum bog (*Shoe*, Nic).  
 3106 **C. clavicorne** Csy. Peekskill (Sherm); Westchester Co, *Dow* (Ds); Mosholu, Sep (BM).  
 3107 **C. abducens** Csy. Tivoli, May (Not).  
 3109 **C. laetulum** Csy. Hudson R. Val., *SmHH* (Csy).  
 3115 **C. frontale** Csy. Mosholu, Sep (BM); **SI**, Nov (L&D); **LI**: Jamaica, May 15, *Pears* (Nic).  
 3130 **C. castaneum** Csy. Keene Val., Je, Jl (Not).  
 3136 **C. parcum** Csy. Croton L., Ap (Not).  
 3139 **C. biceps** Csy. **LI**: Wyandanch, Ap 3, under pine bark (Nic).  
 3142 **C. trinifer** Csy. "NY" (Csy); **LI**: Jamaica, *Pears* (Nic).  
 3145 **C. fulvum** Lec. "NY" (Csy); Westfield, May (Not).  
 3150 **C. capillosulum** Lec. Mosholu, Sep (BM); **LI**: Huntington, Je 18, *Schott* (Nic); Yaphank, Ap (BM).  
 3153 **C. lynceum** Csy. "NY", *SmHH* (Csy).  
 3155 **C. politum** Say. **LI**: Wyandanch, Oct (Not).  
 3165 **C. pumilum** Csy. Hudson R. Val. (Csy).

## SCYDMAENUS Latreille

- 3168 *S. perforatus* Schaum. Johnstown, Ap (NYS); Ithaca, Nov, *Bish* (NYS); Windsor, Je (Not); Westchester Co, May, *Dow* (Ds); Van Cort. Pk. (BM); **SI**, common, sifting leaves, Ap, *Woodr, Nic* (L&D); **LI**: Jamaica, May 11, *Pears* (Nic).
- 3171 *S. cribrarius* Lec. Keene Val., J1 (Not).
- 3172 *S. turbatus* Csy. Keene Val., Parkers in Lewis Co, Je (Not).
- 3183 *S. corpusculum* Csy. Ramapo (Sf).
- 3184 *S. caducus* Csy. Westfield, May (Not).

## OPRESUS Casey

- 3188 *O. othonus* Csy. Bronx Pk., Je (Sf).

## CEPHENNIUM Müller and Kunze

- 3194 *C. corporosum* Lec. Near NYC (Csy); Bronx Pk., Mar, *Sf* (AM); Van Cort. Pk. (Nic).

## CHEVROLATIA Duval

- 3208 *C. amoena* Lec. Vic. NYC (Lec).

## ACHOLEROPS Casey

- 3222 *A. zimmermanni* Schaum. Sodus Pt., Je (Not); **LI**: Yaphank, Sep (BM).

## FAMILY ORTHOPERIDAE

*(Corylophidae)*

## BATHONA Casey

- 3229 *B. sphaericula* Csy. Mooers, Sep (Not); **LI**: Yaphank, Je (Not).

## CORYLOPHODES Matthews

- 3230 *C. marginicollis* Lec. Peekskill (LgAM); **SI**, Mar (L&D); **LI**: Yaphank, Je (Not).

## GRONEVUS Casey

- 3234 *G. sticticus* Csy. Mooers, Sep (Not).
- 3236 *G. truncatus* Lec. NY, under stones (Csy).

## RYPOBIUS LeConte

- 3239 *R. marinus* Lec. **SI**, Mar 18, Ap 30, in salt meadow (L&D); **LI**: Rockaway Beach (LgAM); Coney I. (Lec).

## ORTHOPERUS Stephens

- 3244 *O. glaber* Lec. Buffalo (Z&R); Canastota, Mar 13, *J. C. Faure* (Kngt); **SI**, Je (L&D).
- 3245 *O. suturalis* Lec. Newport (NYS).



- 6476a *O. scutellaris* Lec. var. *piceus* Csy. NY, type locality. Axton, Je (M&H), as *scutellaris*, belongs here (Lg). The reference in Lg Cat. to *Sphaeriidae* is erroneous.

**SERICODERUS** Stephens

- 3252 *S. lateralis* Gyll. (*flavidus* Lec.). Buffalo (Z&R); Keene Val., J1 (Not).  
3253 *S. obscurus* Lec. Buffalo (Z&R); Keene Val., May (Not).

**SACIUM** LeConte

- 3258 *S. lugubre* Lec. Keene Val., Sep (Not).

**MOLAMBA** Casey

- 3265 *M. biguttata* Lec. "NY" (Csy); West Pt. (Robn).  
3266 *M. lunata* Lec. Newport (NYS); Keene Val., Sep (Not); Cranberry L., Je-J1 (H); Buffalo (Z&R); **SI**, ex Rbts Coll. (L&D); **LI**: Central Pk., Ap (Eng).  
3268 *M. lepida* Lec. Vic. NYC (AM).  
3269 *M. ornata* Csy. Pike, Ap (NYS); Niverville, May, *Leon* (NYS).  
3271 *M. fasciata* Say. Buffalo (Z&R); vic. NYC (AM); **SI**, Je (Chitt).

FAMILY **STAPHYLINIDAE**<sup>36</sup>

SUBFAMILY **MICROPEPLINAE**

**MICROPEPLUS** Latreille

- 3290 *M. tesserulus* Curtis. Keene Val., Je (Not).

SUBFAMILY **OXYTELINAE**

Tribe **PIESTINI**

**SIAGONIUM** Kirby

- 3298 *S. americanum* Melsh. Newport, 1898 (NYS).  
3299 *S. punctatum* Lec. Cranberry L., J1-Aug (H); Fourth L., Je (NYS).

**TRIGA** Fauvel

- 3305 *T. picipennis* Lec. Keene Val., J1, Westfield (Not); Delmar, May (NYS); Peekskill (AM); Normanskill, Ap (NYS); West Pt. (Robn); **SI**, Ap-May, under bark of beech log (L&D); **LI**: Queens, Ap, *Shoe* (Sf).

**ELEUSIS** Castelnau

- 3307 *E. pallida* Lec. "NY" (Horn); Windsor, Je (Not); Nichols, May (Not).

**LISPINUS** Erichson

- 3312 *L. prolixus* Lec. "NY" (Lec).

<sup>36</sup> The list in this family has been gone over critically by Howard Notman and H. C. Fall, and Mr. Notman has made many additions from his extensive collecting and study of this group in the State.

## THORACOPHORUS Motschulsky

(Glyptoma Erichson)

- 3315 **T. costalis** Er. Newport, May (NYS); Sodus Pt., Je (Not); Buffalo (Z&R); Westfield (Not); Albany, Nov 3 (NYS); Peekskill (AM); SI, Ap 26, under bark (L&D); LI: Yaphank, May (Not).

## PSEUDOPSIS Newman

- 3319 **P. sulcata** Newm. Keene Val., Je (Not); Gloversville, Sep (NYS); Westfield (Not); L. Pleasant, *Love* (Sf).

## OLISTHAERUS Heer

- 3321 **O. nitidus** Lec. (*substriatus* Gyll.). Keene Val., Je (Not); Herkimer Co, Yg (AM).

## PROTEINUS Latreille

- 3322 **P. atomarius** Er. Westfield (Not).

## MEGARTHURUS Stephens

- 3330 **M. excisus** Lec. Cranberry L., J1 3, in decaying fungi (H); Gloversville, Sep (NYS).  
 3331 **M. sinuaticollis** Boisd. Keene Val., Je-J1 (Not).  
 3332 **M. americanus** Sachse. Peekskill (AM).

## Tribe OMALIINI

## TRIGONODEMUS LeConte

- 3335 **T. striatus** Lec. Buffalo (Z&R).

## ANTHOBIUM Stephens

- 3339 **A. convexum** Fauv. Axton, Je (M&H); Keene Val., Je (Not); Cranberry L., Je (H); Newport, May (NYS); Castile, May, *Brad* (Flet); Katonah (Fall).  
 3344 **A. horni** Fauv. Cranberry L., Je-Aug, extremely abundant on flowers of Acer, Spiraea, Rubus, etc. (H); Red House, Je (Not); Karner, May (NYS).  
 3347 **A. pothos** Mann. (*dimidiatum* Melsh.). Mt. Marcy, J1 (Not); Fourth L., Je (NYS); Buffalo (Z&R).  
 3351 **A. orientale** Bnhr. Mt. Marcy, J1, Keene Val., Je, Red House, Je (Not).

## PYCNOGLYPTA Thomson

- 3355 **P. lurida** Gyll. Keene Val., Je (Not); Cranberry L., Je 28, in sweeping (H).

## PHYLLODREPA Thomson

- 3359 **P. punctiventris** Fauv. LI: Orient, Ap (NYS).  
 3363 **P. florale** Payk. West Pt. (Robn).

**OMALIUM** Gravenhorst

- 3379 **O. humerosum** Fauv. Newport, 1898 (NYS); Albany, Je (NYS).  
 3386 **O. repandum** Er. Peekskill (Fall, Sherm); **LI**: Orient, Nov (NYS).  
 3387 **O. rivulare** Payk. Sodus Pt., Je, Westfield (Not).

**PHLOEONOMUS** Heer

- 3393 **P. lapponicus** Zett. Mt. Marcy, J1 (Not).  
 3394 **P. pusillus** Grav. Trenton Falls (Hamilton).

**OLOPHRUM** Erichson

- 3412 **O. obtectum** Er. Newport (NYS); Keene Val., Sep (Not); Syracuse, May (H); Pike (NYS); Batavia, J1 (Kngt); Maratanza L., Ulster Co, May (NYS); Peekskill (AM); **SI**, in salt meadows (LgAM).  
 3413 **O. rotundicolle** Sahlb. Buffalo (Z&R); **SI**, Mar–Ap, at border of salt meadow (L&D).

**ARPEDIUM** Erichson

- 3420 **A. schwarzi** Fauv. Newport, May (NYS); Washingtonville, Oct (NYS).  
 3423 **A. brachypterum** Grav. Moss Pond, Mt. Marcy, J1 (Not).

**ACIDOTA** Mannerheim

- 3424 **A. crenata** Fab. Cranberry L., Je 28, sweeping in woods (H); **LI**: Rosedale, Ap (Not).  
 3425 **A. subcarinata** Er. Tivoli, May (Not).

**PARALESTEVA** Casey

- 3431 **P. pallipes** Lec. Mt. Marcy, Oct 1 (LgAM); Sodus Pt, Je (Not); Windsor, Je (Not).

**MICROEDUS** LeConte

- 3446 **M. austinianus** Lec. Keene Val., J1 (Not).

**GEODROMICUS** Redtenbacher

- 3461 **G. brunneus** Say. Buffalo (Say); Howe Cave, May (NYS); Windsor, Je (Not); Peekskill (Fall, Sherm); **SI**, May (L&D).  
 3462 **G. strictus** Fauv. Sodus Pt., Je, Westfield (Not); McLean, Aug 12 (Flet); **SI** (L&D).  
 3464 **G. plagiatus** Fab. "NY" (Hamilton); Sodus Pt., May–Je (Not).  
**G. plagiatus** var. **nigritus** Müll. Westfield (Not).

**BOREAPHILUS** Sahlberg

- 3474 **B. americanus** Not. **LI**: Rosedale (Not).

**RENARDIA** Motschulsky

- 3474½ **R. jubilosa** Mots. "NY" (Lg Cat.).

## Tribe OXYTELINI

## SYNTOMIUM Curtis

- 3475 *S. confragosum* Makl. Keene Val., Mt. Skylight, JI (Not).

## ANCYROPHORUS Kraatz

- 3483 *A. planus* Lec. Mt. Marcy, JI (Not); Washington Co (AM).

## TROGOPHLOEUS Mannerheim

- 3487 *T. corvinus* Csy. Westfield, May (Not).  
 3496 *T. bilineatus* Steph. (*riparius* Lac.). "NY" (Fauvel in Hamilton).  
 3498 *T. quadripunctatus* Say. Syracuse, May (H); Sodus Pt., Windsor, Je (Not); LI: Brooklyn (Csy).  
 3500 *T. morio* Er. Syracuse, May (H); Westfield, May (Not); Schoharie (Not); Windsor, Je (Not).  
 3501 *T. rivularis* Mots. Sodus Pt., Windsor, Je (Not).  
 — *T. lacustris* Not. Cranberry L., Je 23 (H). Type.  
 3514 *T. difficilis* Csy. Sodus Pt., Windsor, Je (Not).  
 3518 *T. temporalis* Csy. "NY" (Sm).  
 3520 *T. nanulus* Csy. Cranberry L., Je 23, sweeping in marshy area (H).  
 3525 *T. subtilis* Er. Sodus Pt., Windsor, Je (Not).  
 3531 *T. pudicus* Csy. Windsor, Je (Not); SI, Je (L&D).  
 3532 *T. robustulus* Csy. "NY" (Csy).  
 3537 *T. simplarius* Lec. LI: Coney I., in salt marsh (Lec).  
 3540 *T. convexulus* Lec. "NY" (Lec).  
 — *T. volans* Not. Windsor, Je (Not).  
 — *T. vespertinus* Not. Windsor, Je (Not).

## APOCELLUS Erichson

- 3556 *A. sphaericollis* Say. Crown Pt., Aug (Not); Mooers, Sep (Not); SI, on sidewalk (L&D).

## OXYTELUS Gravenhorst

- 3571 *O. sculptus* Grav. Newport (NYS); Fourth L., Je (NYS); Buffalo (Z&R); Peekskill, Ap-May, *Sherm* (AM); Mosholu (Sf).  
 3572 *O. insignitus* Grav. Newport, May-Je (NYS); Pike, Sep (NYS); Albany, May; Clinton Hgts., Ap (NYS); Ulster Co, Sep, *Nic* (Sf); West Pt. (Robn); West Farms, NYC, Oct, *Zab* (AM); SI (L&D); LI: Flatbush, Oct-Nov, *Zab* (AM); Jamaica, *Pears* (Sf); Orient, Ap (NYS).  
 3574 *O. breviceps* Csy. Newport, May (NYS); Catskills (Csy).  
 3576 *O. laqueatus* Marsh. Windsor, Je (Not).  
 3579 *O. invenustus* Csy. Ulster Co, Sep, *Nic* (Sf).  
 3580 *O. pennsylvanicus* Er. Newport, May (NYS); Fourth L., Je (NYS).

- 3582 **O. rugosus** Fab. Newport, May (NYS); Westfield, May (Not); Albany, Ap (NYS); Peekskill, Ap, under small stones in gardens (Sherm); Mosholu (Sf).  
 3587 **O. nitidulus** Grav. "NY" (Hamilton); Windsor, Je (Not).  
 3589 **O. suspectus** Csy. Albany, May (NYS); Bronx Pk. (Sf).  
 3592 **O. nanus** Er. NY (Lg Cat.).  
 3593 **O. exiguus** Er. Newport, 1898 (NYS); Peekskill, Mar, *Sherm* (AM).  
 3595 **O. tetracarınatus** Block. Windsor, Je (Not).

## PLATYSTETHUS Mannerheim

- 3596 **P. americanus** Er. Keene Val., Je (Not); Cranberry L., Je 25, in decaying fungi (H); Buffalo (Z&R,Horn,Er); Windsor, Je (Not); **SI** (L&D).

## BLEDIUS Mannerheim

- 3599 **B. pallipennis** Say (*mandibularis* Er.). "NY" (Lec); **LI**: Rockaway Beach, *Dietz* (Sf).  
 3601 **B. brevidens** Lec. "NY" (Lec).  
 3615 **B. politus** Er. **LI**: Coney I., JI (Lec).  
 3622 **B. semiferrugineus** Lec. Sodus Pt., Je (Not); Buffalo (Z&R); Albany, Ap (NYS).  
 3625 **B. fumatus** Lec. Buffalo (Rein); Peekskill, Mar, *Sherm* (AM).  
 3636 **B. analis** Lec. Peekskill, *Sherm* (AM).  
 3637 **B. nitidicollis** Lec. "NY" (Lec).  
 3643 **B. opacus** Block. "NY" (Fauv).  
 3651 **B. sinuatus** Lec. Westfield, May (Not).  
 3656 **B. stabilis** Csy. Schoharie (Not).  
 3657 **B. confusus** Lec. Syracuse, Ap (H).  
 3668 **B. tau** Lec. Sodus Pt., Je (Not); Hudson Falls, *Sherm* (Fall).  
 3676 **B. emarginatus** Say. Windsor, Je, Schoharie (Not); Nassau, JI (NYS); Hudson Falls, Aug, *Sherm* (AM).  
 3677 **B. honestus** Csy. Schoharie (Not); Catskills (Csy).  
 3679 **B. basalis** Lec. **LI**: Coney I., in salt marsh (Lec); Rockaway Beach (AM).  
 3685 **B. opaculus** Lec. **LI**: Coney I. (Lec).  
 3686 **B. cordatus** Say. Northampton, Karner, Je (NYS); Hudson Falls, Aug, *Sherm* (AM); **SI**: Sandy Hill, Lg (Sf).  
 — **B. fracticornis** Payk. Windsor, Je (Not).  
 — **B. verticalis** Not. Westfield, May (Not).

## THINOBIUS Kiesenwetter

- 3690 **T. flavicornis** Lec. Oneida L., Aug (Drk); **LI**: Coney I., in salt marsh (Lec).  
 3691 **T. grossulus** Csy. Near NYC (Csy).  
 3694 **T. fimbriatus** Lec. Westfield, May (Not).  
 — **T. amphibius** Not. Westfield, May (Not).



- *T. tardus* Not. Westfield, May (Not).
- *T. grandicollis* Not. Westfield, May (Not).
- *T. caseyi* Not. Westfield, May (Not).
- *T. apicicornis* Not. Westfield, May (Not).
- 3702 *T. delicatulus* Kr. Westfield, May (Not).

## SUBFAMILY STENINAE

## STENUS Latreille

- 3711 *S. bipunctatus* Er. (*comma* Lec.). Newport, JI (NYS); Syracuse, May (H); Buffalo (Z&R); Sodus Pt. (Kngt); Waterville, Je, Westfield, May (Not); Windsor, Je (Not); Ithaca, Oct (Kngt); Schoharie (Not); Ft. Hunter, Je (Not); West Pt. (Robn).
- *S. fulvoguttatus* Not. Windsor, Je (Not).
- 3712 *S. colon* Say. Keene Hgts., JI (Not); Buffalo (Z&R); Westfield, May (Not).
- 3714 *S. semicolon* Lec. Syracuse, Ap (H); Pike, Ap (NYS); Westfield, May (Not).
- 3718 ?*S. laccophilus* Csy. Syracuse, May (H).
- 3719 *S. juno* Fab. Keene Val., Keene Hgts., JI (Not); Newport, (NYS); Gloversville, Mar (NYS); Waterville, JI, Sodus Pt., May (Not); Buffalo (Z&R); Westfield, May, Windsor, Je (Not); Utica, Je, Tivoli, May (Not); **SI**, Feb, *Woodr*, sifting (L&D).
- 3722 *S. austini* Csy. Mt. Marcy, JI (Not).
- 3727 *S. femoratus* Say. Sodus Pt., Je (Not).
- 3728 *S. similatus* Blatch. Parkers, Je, Tivoli, May (Not).
- 3730 *S. strangulatus* Csy. "NY" (Ent. Amer. 1, 74, *see* Csy, Stenini, 1884, 39).
- 3736 *S. erythropus* Melsh. Rensselaer, May, Kinderhook, Je (NYS); **SI**, Feb, sifting, *Woodr* (L&D).
- 3737 *S. rugifer* Csy. Keene Hgts., JI, Ausable Forks, Crown Pt., Aug, Lowville, Je, Sodus Pt., Je, Tivoli, May, Sylvan Beach, Je (Not).
- *S. edax* Not. Windsor, Je (Not). May not be distinct from *rugifer* Csy. (Not).
- 3753 *S. placidus* Csy. Johnstown, May (NYS).
- 3757 *S. militaris* Csy. Westfield, May (Not).
- 3758 *S. pluto* Csy. "NY", Je, *Sherm* (AM); Ausable Lakes, JI (Not).
- 3769 ?*S. nanus* Steph. "NY" (AM).
- 3776 *S. obstrusus* Csy. "NY" (Csy).
- 3780 *S. colonus* Er. Cranberry L., Je 23, sweeping (H); Ashland, Aug (Frost); West Pt. (Robn).
- 3782 *S. humilis* Er. Cranberry L., JI 5, in dying birch (H).
- *S. perexilis* Not. Windsor, Sodus Pt., Je (Not).
- 3787 *S. stygicus* Say. Mooers, Sep (Not); Newport, Johnstown, Aug (NYS); Windsor, Je (Not); Ramapo, Je (Ds); **SI**, Je (L&D).
- 3788 *S. egenus* Er. Common in Essex, Franklin, St. Lawrence, Lewis, and Oneida Counties, Je-Sep (Not); Cranberry L., Je, sweeping (H); Sodus Pt., Je (Not).
- 3789 *S. dolosus* Csy. Ausable Lakes, JI, Ausable Forks, Aug, Crown Pt., Aug, Sodus Pt., Je, Sylvan Beach, Je (Not).

- 3791 *S. sectilifer* Csy. (*milleporus* Csy.). "NY" (Csy).  
 3792 *S. vinnulus* Csy. Cranberry L., Je, sweeping (H); Moss Pond, Ausable Lakes, Jl, Sodus Pt., May (Not).  
 3795 *S. argus* Grav. Keene Val., Mt. Marcy, Sylvan Beach, Je-Jl (Not); LI: Yaphank, Mar (Not).  
 3796 *S. pudicus* Csy. "NY", Je, *Sherm* (AM).  
 3797 ?*S. minor* Csy. Syracuse, Ap (H).  
 3799 *S. parallelus* Csy. Newport, 1898 (NYS).  
 3802 *S. juvencus* Csy. Keene Val., Je (Not).  
 3809 *S. graciosus* Csy. Waterville, Je (Not).  
 3811 *S. curtus* Csy. Waterville, Je (Not).  
 3832 *S. flavicornis* Er. Newport, May (NYS); Keene Val., Keene Hgts., Ausable Lakes, Jay, Waterville, Sylvan Beach, Lowville, Sodus Pt., Windsor, Je-Aug (Not); Chapel Pond, Je, *Leon* (NYS); Syracuse, Ap-May (H); Bridgeport, Ap-May (H); Buffalo (Z&R); Schoharie (Not); Albany, Karner, Voorheesville, New Baltimore, Poughkeepsie, May-Je (NYS); Whitehall, Oct, Ft. Hunter, Tivoli, May (Not); West Pt (Robn); SI, Feb, in sifting, *Woodr* (L&D).  
 3833 *S. annularis* Er. Keene Val., Je, Mt. Marcy, Jl, Sodus Pt., May (Not); Normanskill, May (NYS); SI, May (L&D).  
 3837 *S. tarsalis* Ljungh. Keene Val., Mt. Marcy, Moss Pond, Ausable Pt., Ft. Hunter, Whitehall, Je-Oct (Not); Cranberry L. (H); Washington Co, Aug, *Sherm* (AM); Rensselaer, May (NYS); Peekskill, Mar (AM); Hudson Falls, *Sherm* (AM).  
 3838 *S. canadensis* Csy. Newport (NYS); Keene Val., Sylvan Beach, Windsor, Whitehall, Ft. Hunter, Je-Oct (Not).  
 — *S. reconditus* Csy. Ashland, Aug (Fall). Fall believes it a good species.  
 3841 *S. punctatus* Er. Ausable Lakes, Crown Pt., Mt. Marcy, Keene Val., Waterville, Sodus Pt., Windsor, Tivoli, Ft. Hunter, May-Aug (Not); Newport, Je (NYS); Elm L., Aug (NYS); Washington Co, Aug, *Sherm* (AM); Kinderhook, Je, Poughkeepsie, May (NYS); Peekskill (AM); Ramapo, May (Ds); Ashland, Aug (Frost); SI, Oct (L&D).  
 3842 *S. artus* Csy. "NY" (Csy).  
 3844 *S. callosus* Er. Syracuse, May (H).  
 3846 *S. arculus* Er. Crown Pt., Keene, Whitehall, Tivoli, May-Aug (Not); Washington Co, Peekskill, Hudson Falls (AM); Kenwood, Jl (NYS); SI, Oct (L&D).  
 3848 *S. hubbardi* Csy. Mt. Marcy, Keene Val., Moss Pond, Ausable Lakes, Mountain View, Ft. Hunter, Tivoli, May-Sep (Not).  
 — *S. caenicolus* Not. Mooers, Keene, Keene Hgts., Ausable Forks, Lowville, Sylvan Beach, Waterville, Sodus Pt., Windsor, Rensselaerville, Tivoli, May-Je (Not).  
 3853 *S. croceatus* Csy. Sodus Pt., Je (Not). SI, Feb, in sifting (L&D).

## DIANOUS Samouelle

- 3857 *D. coeruleus* Gyll. Buffalo (Robts); Suffern, May, *Schott* (Not); NYC and vic. (Frost); SI, Ap-Nov; clings to boards and stones below falls (L&D).  
 3858 *D. nitidulus* Lec. Ausable Lakes, Jl (Not); East Bay, Wayne Co, Sep, *Bish* (NYS).

SUBFAMILY **EUAESTHETINAE****STICTOCRANIUS** LeConte

- 3859 **S. puncticeps** Lec. **SI**, Ap (Sf).

**EUAESTHETUS** Gravenhorst

- 3869 **E. robustulus** Csy. **LI**: North Beach, Feb. *Schott* (Sf); New Lots, Cypress Hills, Ap, *Shoe* (Sf).  
 3872 **E. americanus** Er. Sodus Pt., Windsor, Je (Not); Peekskill (AM); Bronx Pk. (Sf); **SI**, Oct (L&D).

SUBFAMILY **PAEDERINAE****PINOPHILUS** Erichson

- 3874 **P. latipes** Grav. "NY" (GravANSP).

**PALAMINUS** Erichson

- 3891 **P. luteus** Csy. **LI** (Csy).  
 3892 **P. testaceus** Er. **SI**, May-Je (L&D).  
 3894 **P. hudsonicus** Csy. **LI** (Csy).  
 3900 **P. larvalis** Lec. **LI**, under moss (Lec).

**GASTROLOBIUM** Casey*(Cryptobium)*

- 3903 **G. carolinum** Er. "NY" (AM).  
 3908 **G. bicolor** Grav. Mooers, Sep (Not); Newport, May (NYS); Gloversville, Je (NYS); Pike (NYS); Buffalo (Z&R); Sodus Pt., Je, Westfield, May (Not); Ithaca, May-Oct (DtNYS); Windsor, Je (Not); Schoharie (Not); Clinton Hgts., Ap (NYS); West Pt. (Robn); **SI**, May, Jl (L&D).  
 3909 **G. melanocephalum** Er. "NY" (Csy).  
 3910 **G. badium** Grav. **SI**, Ap, Je (L&D).  
 3914 **G. parallelum** Csy. **LI** (Csy).

**HESPEROBIUM** Casey

- 3926 **H. pallipes** Grav. Gloversville, Mar-Sep (NYS); Syracuse, Ap, Oct (H); Buffalo (Z&R); Westfield, May (Not); McLean, Ap 17, *Babiy* (Flet); Ithaca, Ap-Sep (Dt); Auburn (H); Poughkeepsie, Je (NYS); West Pt. (Robn); Mosholu, May (Ds); **SI**, Mar-Apr, Sep, Nov (L&D); **LI**: Orient, Mar 17 (Ds).  
 3926a **H. pallipes** var. **capito** Csy. Ithaca, May-Oct (Dt).  
 3927 **H. flavicorne** Lec. "NY" (Csy).  
 3928 **H. cinctum** Say. "NY" (Csy); Syracuse, Ap (H); **SI**, Feb, in sifting (L&D).  
 3932 **H. sellatum** Lec. Olcott, Ap (Dt).

- 3933 **H. cribratum** Lec. Newport, May (NYS); Gloversville, Mar (NYS); Syracuse, Ap (H); Buffalo (Z&R); Ithaca, Mar-Nov (Dt); Windsor, Je (Not); Albany, May (NYS); Rensselaer, May (NYS); Poughkeepsie, Je (NYS); West Pt. (Robn); Peekskill, Mar (AM).

## PAEDERUS Fabricius

- 3950 **P. obliteratus** Lec. "NY" along ocean beach (Csy); **LI**: Ap, *Shoe* (Sf); Brooklyn, *Nic* (Sf).  
 3952 **P. littorarius** Grav. Mooers, Sep (Not); Axton, Je (M&H); Newport (NYS); Cranberry L., Je-Jl, under damp stones (H); Oneida L., Aug (Drk); Syracuse, Ap (H); Sodus Pt., Je (Not); Olcott, Howland L., *Ds* (Dt); Buffalo (Z&R); Pike, Mar (NYS); Castile, *Brad* (Flet); Ithaca, common in early spring (Dt); McLean, Ap, *Babiy*, Je, *Cy* (Flet); Windsor, Je (Not); Karner, Je (NYS); Cedar Hills, Ap (NYS); Nassau, Mar (NYS); Ramapo, May (*Ds*); West Pt. (Robn); **SI**, Mar, May-Je, Nov (L&D); **LI**, Ap, *Shoe* (Sf).  
 3954 **P. canonicus** Csy. **LI** (Csy).

## CRYPTOBIELLA Casey

- 3959 **C. pusilla** Lec. **LI**: from the seashore (Lec).

## LATHROBIUM Gravenhorst

- 3964 **L. amplipennis** Csy. (*deceptivum* Csy.). Westfield, May (Not); Ithaca, Ap, Jl (Dt); Hudson Val. (Csy); White Plains, Mar, *Bno* (Sf).  
 3966 **L. armatum** Say (*procerum* (Csy.)). Gloversville, Mar (NYS); Syracuse, Ap (H); Ithaca, May (Dt); McLean, Jl (Dt); Windsor, Je (Not); Delmar, Mar (NYS).  
 3969 **L. nigrolucens** Csy. Westchester Co, *Dow* (Sf); **LI** (Csy).  
 3981 **L. simile** Lec. Oneida L., Aug (Drk); Pike, Ap (NYS); Ithaca, Nov (Dt); Clinton Hgts., Oct (NYS); Peekskill, Mar, Jl (AM); Hudson Falls, *Sherm* (AM); near NYC (Csy); **LI**, May, *Shoe* (Sf).  
 3983 **L. neglectum** Csy. Ringwood, May (Dt).  
 3990 **L. bicoloratum** Bnhr. Newport, Je (NYS).  
 3991 **L. puncticolle** Kby. "NYS" (Horn, 'Kby).  
 — **L. lintneri** Not. Westfield, May (Not).

## LITOLATHRA Casey

- 3992 **L. rhodeana** Csy. Near NYC (Csy).  
 3995 **L. cruralis** Csy. Ithaca, Mar (Dt).  
 3999 **L. subgracilis** Csy. "NY" (Csy).  
 4001 **L. suspecta** Csy. Near NYC (Csy).

## LATHROBIOMA Casey

- 4008 **L. othioides** Lec. Windsor, Je (Not).  
 4009 **L. tenuis** Lec. "NY" (Lec); Windsor, Je (Not); Peekskill, Mar, as *Lathrobium* (AM).

- 4010 *L. nigrolinea* Csy. Cranberry L., Je 23, under bark of dead log (H).  
 4012 *L. scolopacea* Csy. Cranberry L., Je 23, under bark of dead log (H).  
 4013 *L. inops* Csy. "NY" (Sf).

## LATHROLEPTA Casey

- 4014 *L. debilis* Lec. Near NYC (Csy).

## TETARTOPEUS Czwalina

- 4016 *T. punctulatus* Lec. Westfield, May (Not); Gloversville, Mar (NYS); Sodus Pt., Je (Not); Buffalo (Rein); West Pt. (Robn); **SI**, Sep 30, in sifting (L&D); **LI**: Brooklyn, Mar, *Shoe* (Sf).  
 4022 *T. angularis* Lec. Buffalo (Z&R); Albany, May (NYS); Clinton Hgts., Oct (NYS); **SI**, Jan 19, Ap, in sifting (L&D).  
 4024a *T. tetricus* Csy. var. *agitans* Csy. Near NYC (Csy).

## EULATHROBIUM Casey

- 4031 *E. grande* Lec. Sodus Pt., Je (Not); Ringwood, McLean, Jl (Dt); Peekskill (AM); **LI**: Cypress Hills, Ap, *Shoe* (Sf).

## LATHROTAXIS Casey

- 4045 *L. longiuscula* Grav. Newport, May (NYS); Gloversville, Ap (NYS); Olcott, Ap-May (Dt); Windsor, Oct (Dt); Westfield, May (Not); Ithaca, Ap-May (Dt); Poughkeepsie, May (NYS); Bronx Pk. (Sf); **LI**: Rockaway Beach, May, *Shoe* (Sf).

## LATHROBIELLA Casey

- 4068 *L. ventralis* Lec. Newport, May (NYS); Nassau, Je, Normanskill, May (NYS).  
 4074 *L. collaris* Er. Axton, Je (M&H); Newport, May (NYS); Sodus Pt., May (Not); Syracuse, Ap (H); Olcott, Ap, Ithaca, May (Dt); Westfield, May (Not); Windsor, Je (Not); Albany, May, Clinton Hgts., Ap (NYS); West Pt. (Robn); Westchester Co, *Dow* (Sf); NYC, May (NYS); **SI**, May (L&D); **LI**, Ap, *Shoe* (Sf).  
 4081 *L. fragilis* Csy. Windsor, Je (Not); near NYC (Csy).  
 4082 *L. rubida* Csy. Westfield, May (Not).  
 4087 *L. depressula* Csy. Catskills (Csy).

## MICROLATHRA Casey

- 4088 *M. pallidula* Lec. Fourth L., Je, Gloversville, Ap (NYS); Karner, Oct, Normanskill, May (NYS); **SI** (Csy); **LI**: Brownsville, Ap, *Dow* (Sf).

## ADEROCHARIS Sharp

- 4093 *A. corticinus* Grav. Ithaca, Sep (Dt); Schoharie (Not); **SI**, Je (L&D)



## LITHOCHARIS Lacordaire

- 4094 *L. ochracea* Grav. Schoharie (Not); Peekskill, Je (AM).

## TRACHYSECTUS Casey

- 4105 *T. confluentus* Say. Axton, Je (M&H with query); Newport, May, Gloversville, Ap (NYS); Syracuse, Ap (H); Cranberry L., Je, under bark of dead log (H); Pike, Ap (NYS); Sodus Pt., Je, Westfield, May (Not); Karner, Nassau, May, Normanskill, Ap (NYS); West Pt. (Robn); Westchester Co (Ds); **SI**, Ap-May (L&D); **LI**: Queens, Flatbush, Rockaway, Mar (Ds).

## TETRAMEDON Casey

- 4151 *T. rufipenne* Csy. Hudson Val. (Csy).

## HYPOMEDON Rey

- 4173 *H. debilicornis* Woll. NYC, Jan 30 (NYS).

## PSEUDOMEDON Rey

- 4174 *P. thoracicum* Csy. Peekskill, Je, as *obsoletus* Nordm. (AM); **SI**, Jan (L&D).  
 4174a *P. thoracicum* var. *ruficollis* Csy. "NY" (Csy).

## SCOPAEUS Erichson

- 4207 *S. crassulus* Csy. Sodus Pt., Je (Not).  
 4210 *S. longipennis* Fall. Sodus Pt., Je (Not).  
 4215 *S. hudsonicus* Csy. Hudson Val. (Csy).  
 — *S. quadriceps* Not. Schoharie (Not); Windsor, Je (Not).  
 4216 *S. exiguus* Er. Hudson Val. (Csy).  
 4218 *S. degener* Csy. Hudson Val. (Csy).  
 4221 *S. delicatus* Csy. "NY" (Csy).

## SCOPAEOMA Casey

- *S. pallida* Not. Westfield, May (Not).

## SCOPAEOPSIS Casey

- 4234 *S. ventralis* Csy. **LI** (Csy).

## STILICUS Latreille

- 4240 *S. latiusculus* Csy. Sodus Pt., Je (Not); **LI**: Flatbush, Mar, Rockaway Beach, *Dow* (S).  
 4241 *S. rudis* Lec. Westchester Co, May, *Dow* (Sf); Aqueduct, Mar, *Shoe* (Sf); Huntington, Je, *Schott* (Sf).

- 4243 *S. angularis* Lec. Peekskill, May (AM); **LI**: Bellport, Jl, *Nic* (Sf).  
 4247 *S. biarmatus* Lec. **LI**: Forest Pk, Ap, *Pears* (Sf).  
 4247a *S. biarmatus* var. *abbreviellus* Csy. Near NYC (Csy).  
 4248 *S. dentatus* Say. Westchester Co (Ds); Peekskill (AM); **SI**, Ap (L&D);  
**LI**: Brooklyn, Flatbush, Feb (Ds).

## MEGASTILICUS Casey

- 4251 *M. formicarius* Csy. West Pt., in ants' nests (Lg).

## PACHYSTILICUS Casey

- 4250 *P. hanhami* Wick. Syracuse, Ap (H).

## STAMNODERUS Sharp

- 4257 *S. monstrosus* Lec. **SI**, Jan 19, Feb, in sifting (L&D).

## ASTENUS Stephens

(*Sunius* Erichson)

- 4260 *A. prolixus* Er. Peekskill, Mar (AM); Westchester Co, May, *Dow* (Sf);  
**SI**, Mar, Sep (L&D).  
 4262 *A. americanus* Csy. "NY to Va" (Csy); **LI**: Jamaica, May, *Pears* (Sf).  
 4263 *A. linearis* Er. Buffalo (Z&R).  
 4265 *A. binotatus* Say. **SI**, Jan 19, in sifting (L&D).  
 4266 *A. cinctus* Say. Albany, Ap (NYS).  
 4270 *A. brevipennis* Aust. Mooers, Sep (Not); **SI**, May (L&D).  
 4272 *A. discopunctatus* Say. Mooers, Sep (Not); Newport, May-Je (NYS);  
 Syracuse, Montour Falls, Ap (H); Westfield, May (Not); Windsor,  
 Je (Not); Ithaca, Mar, McLean, Jl (Dt); Catskills, *Pears* (Sf);  
 Delmar, May (NYS as *Paederus*); Normanskill, Mar (NYS); **SI**,  
*Pears* (Sf).  
 4278 *A. longiusculus* Mann. Buffalo (Z&R); Peekskill (AM); **SI**, Mar-Apr,  
 Nov (L&D).

## SUBFAMILY STAPHYLININAE

## GAUROPTERUS Thomson

- 4284 *G. fulgidus* Fab. Peekskill, late Ap-early May (Sherm); West Farms  
 (AM); **LI**: Rockaway, May, *Shoe* (Sf).

## NUDOBIUS Thomson

- 4285 *N. cephalus* Say. Mt. Seward, 4500 ft., Je (M&H); Mt. Whiteface, Aug  
 (Dt); Newport, Wells, May (NYS); Cranberry L., Je-Jl (H);  
 Syracuse, in hickory (B&S); Buffalo (Z&R); Castile, May, *Brad*  
 (Flet); Ithaca, Mar-Oct (Dt); McLean, Sep 20 (Flet); Unadilla,  
*Nic* (Sf); West Pt. (Robn); **SI**, Ap, Sep (L&D).  
 4293 *N. luridipennis* Csy. **LI**: Wyandanch, Ap, *Schott* (Sf).

## GYROHYPNUS Mannerheim

- 4296 *G. obsidianus* Melsh. Sodus Pt., Je (Not); Oswego, Sep, *Bks* (NYS); Pike (NYS); Ithaca, Sep (Dt); Pinelawn, *Dow* (Sf); Wyandanch, Oct, *Schott* (Sf).
- 4302 *G. emmesus* Grav. Newport, May (NYS); Buffalo (Z&R); Karner, Ap (NYS); Peekskill, *Sherm* (AM); **LI**: Little Neck, Ap, *Schott* (Sf).
- 4304 *G. fusciceps* Lec. "NY" (Csy); Syracuse, Ap (H); Sodus Pt., May, Westfield, May, Windsor, Je (Not).
- *G. pallipennis* Not. Westfield, May (Not).
- 4307 *G. melanops* Csy. Windsor, Je (Not).
- 4308 *G. hamatus* Say (*obscurus* Er). Mooers, Sep (Not); Gloversville, Ap (NYS); Olcott, Ap (Dt); Buffalo (Z&R); Batavia, Sep (Kngt); McLean, Ap 17, *Babiy* (Flet); Peekskill (AM); West Pt. (Robn); **SI**, Sep 15 (L&D); **LI**: Jamaica, May, *Dow* (Sf); Orient, *Lath*, Ap (NYS).
- *G. davisi* Not. **SI**, on gravestones, Aug 31, Sep 28, type (L&D).
- 4312 *G. sanguinipennis* Lec. **LI**: Brooklyn, May, *Dow* (Sf).
- 4313 *G. gilvipennis* Csy. "NY" (Csy); Westchester Co, Mar, *Dow* (Sf).
- 4314 *G. pusillus* Sachse. Sodus Pt., Je, Westfield, May (Not).
- 4319 *G. gularis* Lec. Lansingburg, Oct (NYS); West Pt. (Robn).

## LEPTACINUS Erichson

- 4324 *L. cephalicus* Lec. Hudson Val. (Csy).

## LEPTACINODES Casey

- 4325 *L. flaviceps* Lec. Peekskill, *Sherm*, as *batychrus* Gyll. (AM); **LI** (Csy).

## STICTOLINUS Casey

- 4331 *S. scolopaceus* Csy. "NY" (Csy).

## NEMATOLINUS Casey

- 4334 *N. longicollis* Lec. Ithaca, Ap-May (Dt).

## LEPTOLINUS Kraatz

- 4347 *L. rubripennis* Lec. Newport (NYS); Montour Falls, Ap (H).

## BAPTOLINUS Kraatz

- 4351 *B. macrocephalus* Nord. Moss Pond, Wallface Mt., Keene Val., J1 (Not).
- 4352 *B. americanus* Csy. (*pilicornis* Payk.). Cranberry L., J1 6-10, under bark of dead stump (H); Sodus Pt., Je (Not); Schoharie (Not); Ulster Co, Sep, *Nic* (Sf).
- 4355 *B. fraternus* Csy. (*longiceps* Fauv.). "NY" (Fauv).

## DIOCHUS Erichson

- 4356 *D. schaumii* Kr. Peekskill, *Sherm* (AM); **SI**, on salt meadow, Nov 6 (L&D); **LI**: Yaphank, Je (Not).  
 4358 *D. thoracicus* Csy. **LI** (Csy).

## NEOBISNIUS Ganglbauer

- 4361 *N. sobrinus* Er. Newport, May, Sodus Pt., May-Je, Westfield, May, Windsor, Je (Not); McLean, Aug (Dt); Schoharie (Not); W. Hebron, Je (LgBM).  
 4362 *N. agnatus* Er. **LI**: Forest Pk., *Pears* (Sf).  
 4364 *N. paederoides* Lec. Newport (NYS); Sodus Pt., May-Je, Westfield, May, Windsor, Je (Not); Ithaca, May-Nov, McLean, Aug (Dt); Schoharie (Not); Poughkeepsie, Je (NYS); Peekskill, *Sherm* (AM); **LI** (Lec, Sf).  
 4366 *N. jocosus* Horn. Sodus Pt., Je (Not); Bronx Pk. (Sf).  
 4367 *N. jucundus* Horn. **LI** (AM).  
 4369 *N. terminalis* Lec. Mooers, Sep (Not); Newport (NYS); Westfield, May, Windsor, Je (Not); Schoharie (Not); Ithaca, Ap, Jl-Aug (Dt).  
 — *N. fulvicornis* Not. Sodus Pt., Je (Not).

## ACTOBIUS Fauvel

- 4372 *A. cinerascens* Grav. Mooers, Sep (Not); Sodus Pt., Je, Westfield, May (Not); Ithaca, Jl (Dt); Peekskill, May (Fall, *Sherm*); **SI**, Feb, in sifting, *Woodr* (L&D); **LI**: Jamaica, *Dow* (Sf).  
 4373 *A. nanus* Horn. Sodus Pt., Je (Not); **LI**: Brooklyn, Mar, *Shoe* (Sf).  
 4374 *A. inutilis* Horn. **SI**, Feb, in sifting, *Woodr* (L&D).  
 4375 ?*A. fraterculus* Horn. **SI**, Sep 18, in sand about grass roots (L&D).  
 4379 *A. patella* Horn. "NY" (Horn).  
 4380 *A. loxatus* Horn. **SI**, *Lg* (Sf).  
 4383 *A. parvus* Horn. Cranberry L., Jl 3, in decaying fungi (H); **SI**, Oct 27 (L&D); **LI**: Cold Sp. (Sf).

## PHILONTHUS Curtis

- 4384 *P. politus* L. (*aeneus* Rossi). Axton, Je (M&H); Newport, May-Je (Yg); Johnstown, Sep (NYS); Cranberry L., Je-Jl, in decaying fungi (H); Gloversville, May (Yg); Oswego, Aug, *Bks* (NYS); Olcott, May-Je (Dt); Buffalo (Z&R); Interlaken, Ap (NYS); Ithaca, Ap-Sep, McLean, Ap, Aug (Dt); Albany, Aug (Yg); Clinton Hgts., Ap (NYS); West Pt. (Robn); **SI**, Je, Aug (L&D); **LI**: Eastern Parkway, *Martin* (Sf); Flatbush, Coney I., Oct-Nov, *Zab* (AM); Center I., May, Amagansett, Aug, Eng (Sf); Orient, Je (NYS).  
 — *P. tetragonocephalus* Not. Cranberry L., Je-Jl, in decaying fungi (H).  
 4385 *P. chalcus* Steph. **LI**: Bellport, *Nic* (Sf); Wyandanch, Ap, *Schott* (Sf).  
 4387 *P. sericinus* Horn. Cranberry L., Jl 3 (Not, H); Bronx Pk., Ap, *Shoe* (Sf); **LI**: Flatbush, May, *Dow* (Sf).  
 — *P. cruentatus* Gmel. Cranberry L., Jl 3-4, in decaying fungi and on carrion (H); Syracuse, Ap-May (H); Westfield, May (Not).

- 4392 *P. umbratilis* Grav. Ithaca, Nov (Dt); Albany, May (NYS); **LI**: Rockaway Beach, May, *Shoe* (Sf); Wyandanch, Ap, Je, *Schott* (Sf); Orient, Ap, *Lath* (NYS).
- 4393 *P. laetulus* Say. **SI**, Je (L&D).
- 4395 *P. asper* Horn. Fourth L., J1 (NYS); West Pt. (Robn); **SI** (L&D); **LI**: Little Neck, Dec, *Schott* (Sf).
- 4396 *P. fuscipennis* Mann. Olcott, Ap, (Dt).
- 4403 *P. hepaticus* Er. **LI**: Flatbush, Feb, *Schott* (Sf); Flushing, *Dow* (Sf).
- 4412 *P. umbrinus* Grav. Gloversville, Sep (NYS); West Pt. (Robn); **LI**: Wyandanch, Aug, *Schott* (Ds).
- 4414 *P. palliatus* Grav. Mooers, Sep (Not); McLean, May, Ithaca, Je (Dt).
- 4418 *P. quadricollis* Horn. Mooers, Sep (Not); Newport (NYS); Olcott, Je (Dt); Sodus Pt., Je (Not); Pike, May (NYS); McLean, May, J1 (Dt); Windsor, Je (Not).
- 4420 *P. debilis* Grav. Olcott, Ap (Dt); Ithaca, Sep (Dt); Peekskill, *Sherm* (AM); **SI**, Dec, under weeds in garden (L&D).
- 4421 *P. varians* Payk. Syracuse, in hickory (B&S); Olcott, May (Dt); **SI**, May, *Woodr* (L&D); **LI**: Bellport, *Nic* (Sf); New Lots, May, *Shoe* (Sf); Flatbush, J1, *Schott* (Sf).
- 4422 *P. cervicalis* Csy. "NY" (Csy).
- 4423 *P. longicornis* Steph. Potsdam (Houghton); Ilion, May (NYS); Gloversville, Ap, Oswego, Sep (NYS); Westfield, May (Not); Albany, May (NYS); West Farms, Van Cort. Pk. (AM); **SI** (L&D).
- 4424 *P. discoideus* Grav. Peekskill (AM); West Pt. (Robn).
- 4427 *P. alumnus* Er. "NY" (Horn); Mt. Whiteface, J1, *Shoe* (Sf).
- 4427a *P. alumnus* var. *rufulus* Horn. "NY" (Horn).
- 4430 *P. fusiformis* Melsh. Westfield, May (Not); Ithaca, Mar (Dt); Schoharie (Not); Peekskill, Ap (Fall, *Sherm*); Van Cort. Pk., Bronx Pk. (AM); **LI**: Rockaway Beach, May, *Shoe* (Sf).
- 4431 *P. fulvipes* Fab. Mooers, Sep (Not).
- 4433 *P. schwarzi* Horn. Gloversville, Ap (NYS); Sodus Pt., Je (Not); Olcott, Ap (Dt); Ithaca, Ap (Dt); West Pt. (Robn); **LI**: North Beach, Jan, *Schott* (Sf).
- 4441 *P. micans* Grav. Newport, May-Je (NYS); Buffalo (Z&R); Ithaca, Mar, Sep-Nov (Dt); McLean, Aug, Ringwood, May (Dt).
- 4443 *P. lomatus* Er. Mooers, Sep (Not); Newport, May (NYS); Olcott, Feb-Apr, J1-Sep (Dt); Westfield, May, Windsor, Je (Not); Gloversville, Mar (NYS); Glens Falls, Je (NYS); Pike (NYS); Ithaca, Mar-Apr, Nov, Ringwood, May (Dt); Albany, Ap, Rensselaer, May (NYS); West Pt., Ap, *Robn* (Sf); Peekskill (AM); West Pt., Van Cort. Pk., West Farms (AM); **SI** (L&D).
- 4444 ?*P. cunctans* Horn. Gloversville, Ap; Westfield, May (Not).
- 4445 *P. aequalis* Horn. "NY", Mar 28, *Sherm* (AM); West Pt., May, *Robn* (Sf).
- 4446 *P. brunneus* Grav. Newport, May (NYS); Westfield, May (Not); Oswego, Aug, *Bks* (NYS); McLean, Ap 17, *Babi* (Flet); West Pt. (Robn); Mosholu (AM); **SI** (L&D); **LI**: Jamaica, Je, *Schott* (Sf); Flatbush, Feb, *Dow* (Sf).



- 4447 **P. cyanipennis** Fab. Fourth L., Je (NYS); Cranberry L., under bark of dead log (H); Ilion, May (NYS); Sodus Pt., Je (Not); Olcott, Je-Sep (Dt); Buffalo (Z&R); Pike, Jl (NYS); Ithaca, Ringwood, Je-Sep (Dt); McLean, Jl 17 (Dt); L. George, Aug, *Zab* (AM); Catskills, *Pears* (Sf); Poughkeepsie, (NYS); White L., Jl, *Zab* (AM); West Pt. (Robn); Mosholu, Jl (Sf); **SI**, Je-Sep (L&D); **LI**: Flatbush, Nov (AM).
- 4448 **P. blandus** Grav. Newport, May, Elizabethtown, Aug (NYS); Fulton Chain, Je (NYS); Buffalo (Z&R); Westfield, May, Windsor, Je (Not); Poughkeepsie, Jl (NYS); Peekskill, Harrison (AM); **SI**, Sep (L&D); **LI**: E. New York, May, *Martin* (Sf).
- 4450 **P. sordidus** Grav. Fourth L., Je (NYS); Southfields, May, *Shoe* (Sf); E. New York, May, *Martin* (Sf).
- 4452 **P. cephalotes** Grav. Newport, May (NYS); Olcott, May (Dt); **LI**: Wyandanch, Ap, *Schott* (Sf).
- 4455 **P. ventralis** Grav. Buffalo (Z&R).
- 4458 **P. fallaciosus** Horn. Sodus Pt., Je, Westfield, May (Not).
- 4470 **P. nigrutilus** Grav. (*aterrimus* Grav.). Buffalo (Z&R); Westfield, May (Not).
- 4473 **P. microphthalmus** Horn. Newport (NYS); Gloversville, Sep (NYS); Oswego, *Bks* (NYS); Syracuse, in hickory (B&S); Olcott, Ap 10 (Dt); Sodus Pt., Westfield, May (Not); Peekskill, Ramapo Mts. (AM); **LI**: Brooklyn, May, *Dow* (Sf).
- 4483 **P. validus** Csy. "NY" (Csy).
- 4488 **P. viridanus** Horn. Mooers, Sep (Not); Schoharie (Not); West Farms (AM); **LI**, *Johnson* (Sf).
- 4495 **P. vulgatus** Csy. "NY" (Csy).
- 4497 **P. aurulentus** Horn. Syracuse, Ap (H); Sodus Pt., Je (Not); Olcott, Jl (Dt); Ithaca, Je, Sep, Ringwood, May (Dt); McLean, May, Aug (Dt).
- **P. strigicollis** Not. Westfield, May (Not).
- **P. opacipennis** Not. Mooers, Sep (Not).

## CAFIUS Stephens

- 4506 **C. bistriatus** Er. **SI**, Je (L&D).
- 4509 **C. sericeus** Holme. **LI**: possibly Coney I. (Horn); Rockaway Beach, *Dow* (Sf).

## HESPERUS Fauvel

- 4512 **H. apicalis** Say. Albany, Ap (NYS); West Pt. (Robn); **LI**: Yaphank, Oct, *Eng* (Sf).
- 4513 **H. baltimorensis** Grav. West Pt. (Robn); Mosholu, May (Ds); **SI**, Ap-May, Sep (L&D); **LI**: Flatbush, Parkville, Ap-May, *Zab* (AM).

## BELONUCHUS Nordmann

- 4514 **B. formosus** Grav. Peekskill, Mar, *Sherm* (AM); West Pt. (Robn); Bronx Pk. (AM); **SI**, Je (L&D).

## STAPHYLINUS Linnaeus

- 4526 **S. badipes** Lec. (*carbonatus* Lec.). Syracuse, May (H); Sodus Pt., May-Je (Not); Olcott, Ap-Sep (Dt); Buffalo (Horn); Castile, May, *Brad* (Flet); Batavia, Je (Kngt); Windsor, Je (Not); Cayuga L., Mar, *Bish* (NYS); Ithaca, Ap (Dt); McLean, Ap 17, *Babiy* (Flet); Schoharie (Not); Suffern, Ap (Sf).
- 4527 **S. pleuralis** Lec. Buffalo (Z&R). Occurrence in NY doubtful (Fall).
- 4532 **S. vulpinus** Nordm. Syracuse, Ap (H); Buffalo (Z&R); Westfield, Jl (NYS); Ithaca, Ap (Dt), Sep (NYS); New Salem (NYS); Albany, Medusa, Ap (NYS); West Pt. (Robn); **SI**, May, Oct (L&D); **LI**, Ap, *Eng* (Sf).
- 4533 **S. maculosus** Grav. Syracuse, May (H); Olcott, May-Je (Dt); Buffalo (Z&R); Ilion, May (NYS); Windsor, Je (Not); Ithaca, Ap-Sep, *Bish* (NYS); McLean, Je (Flet); Albany, Ap-May, Karner, May, Clinton Hgts., Ap (NYS); Schodack Landing, Poughkeepsie, Je (NYS); West Pt. (Robn); Mosholu, West Farms (AM); **SI**, Ap-Sep (L&D); **LI**: Flatbush (AM).
- 4534 **S. mysticus** Er. Newport, May (NYS); Gloversville, May (NYS); Syracuse, Ap (H); Sodus Pt., Je (Not); Ithaca, Ap-Jl (Dt); Poughkeepsie, May (NYS); West Pt. (Robn); Mosholu, West Farms (AM); **SI**, Ap-Je (L&D); **LI**: Brooklyn, May, *Eng* (Sf).
- 4537 **S. tomentosus** Grav. Peekskill, Tarrytown, West Farms (AM); **SI**, (L&D).
- 4543 **S. fossator** Grav. Mt. Whiteface, Aug (Dt); Oswego, May, *Bks* (NYS); Poughkeepsie, Aug (NYS); West Pt. (Robn); Peekskill, Jl, *Sherm* (AM); Mosholu, Jl (Sf); **SI**, Aug (L&D); **LI**, *Eng* (Sf).
- 4543a **S. fossator** var. *immaculatus* Horn. "NY" (DeKay).
- 4545 **S. cinnamopterus** Grav. Mooers, Sep (Not); Syracuse, Ap-May (H); Olcott, May-Oct (Dt); Buffalo (Z&R); Batavia, Aug (Kngt); Westfield, Jl (NYS); Castile, *Brad* (Flet); Ithaca, Ap-Sep (Dt); McLean, Jl (Dt); Albany, Je, Coeymans (NYS); Clinton Hgts., Ap (NYS); Catskills, Sep (Ds); West Pt. (Robn); Inwood, Jl, Sep (Ds); **SI**, Je, Jl, Sep (L&D); **LI**, Je, *Eng* (Sf).
- 4546 **S. violaceus** Grav. Newport (NYS); Olcott, Je-Aug (Dt); Buffalo (Z&R); Batavia, Jl-Aug (Kngt); Pike (NYS); Westfield, May (Not); Ithaca, May, McLean, Jl (Dt); Nassau, May (NYS); West Pt. (Robn); **SI** (L&D); **LI**: Yaphank, May, *Eng* (Sf).
- 4548 **S. viridanus** Horn. "NY" (Horn).
- 4549 **S. exulans** Er. Westfield, May (Not); West Pt., Je, *Robn* (Sf).
- 4550 **S. praelongus** Mann. Tarrytown (AM); **LI**: Rockaway Beach (Sf); Orient Pt., Je, *Lath* (NYS).

## OCYPUS Kraatz

- 4551 **O. ater** Grav. Olcott, Jl-Sep (Dt); Buffalo (Z&R); Ithaca, Jl (NYS); Nassau, Aug (NYS); Hudson Falls, *Sherm* (AM); **SI**, Aug (L&D); **LI**: Rosedale, Oct, Rockaway Beach, Je, Amagansett, *Eng* (Sf).

## ONTHOLESTES Ganglbauer

- 4552 **O. cingulatus** Grav. Keene Val., Je; Axton, Je (M&H); Newport, Je (NYS); Crane Pond, Je, *Bks* (NYS); Cranberry L., Jl, in decaying fungi and on carrion (H); Olcott, May-Je (Dt); Buffalo (Z&R);

- Pike (NYS); Windsor, Je (Not); Ithaca, May-Sep (Dt); McLean, Aug-Sep (Flet); Poughkeepsie, Aug (NYS); L. George, Aug, *Zab* (AM); Peekskill (AM); West Pt. (Robn); West Farms, *Angus* (AM); **SI**, May-Oct (L&D); **LI**: Flatbush, Aug, *Zab* (AM).
- 4553 **O. capitatus** Bland. Newport, May (NYS); Johnstown, Sep (NYS); Buffalo (Z&R); West Farms, *Angus* (AM).

#### TYMPANOPHORUS Nordmann

- 4554 **T. puncticollis** Er. **LI**: Rockaway, Je, *Dietz* (Sf).

#### CREOPHILUS Mannerheim

- 4555b **C. maxillosus** L. var. **villosus** Grav. Newport, May (NYS); Cranberry L., Je-Jl, on carrion (H); Olcott, May (Dt); Buffalo (Z&R); Montour Falls, Ap, carrion (H); Windsor, Je (Not); Ithaca, Ap-Sep, *Bish* (NYS); Crane Pond, Je, *Bks* (NYS); Interlaken, Ap (NYS); Nassau, Je (NYS); Stamford, Oct, *Bish* (NYS); West Pt. (Robn); **SI**, Ap-Sep (L&D); **LI**: Prospect Pk., Flatbush, Coney I., May-Nov, *Zab* (AM); Orient, *Lath* (NYS).

#### ACYLOPHORUS Nordmann

- 4564 **A. flavicollis** Sachse. Ringwood, May (Dt).
- 4565 **A. pronus** Er. Mooers, Sep (Not); Fourth L., Je (NYS); Johnstown (NYS); Sodus Pt., May (Not); Buffalo (Z&R); Windsor, Je (Not); McLean, May, Aug (Dt); Peekskill, Jl (AM); Hudson Falls, *Sherm* (AM); Esopus, Aug, *Sherm* (AM).
- 4566 **A. caseyi** Lg. "NY" (Csy).
- 4567 **A. densus** Lec. **LI**: Flushing, Mar, *Schott* (Sf).

#### HETEROTHOPS Stephens

- 4569 **H. fumigatus** Lec. Keene Val., Aug-Sep (Not); Catskills, *Pears* (Sf).
- 4569a **H. fumigatus** var. **fuscus** Lec. Westfield, May (Not).
- 4571 **H. pusio** Lec. "NY" (Lec).

#### QUEDIUS Stephens

- 4574 **Q. ferox** Lec. **SI** (L&D); **LI**, *Schaupp* (AM).
- 4575 **Q. (Quedionuchus) laevigatus** Gyll. Cranberry L., Je-Jl, under bark of dead logs (H); Sodus Pt., Je, Westfield, May (Not); Ithaca, Ap, Jl (Dt); West Pt., Ap, *Robn* (Sf).
- 4578 **Q. vernix** Lec. Ithaca, May, Oct, Ringwood, Jl, McLean, Jl-Aug (Dt); Clinton Hgts., Ap (NYS); Mosholu (Sf); **SI**, Je (L&D).
- 4579 **Q. molochinus** Grav. Ithaca, Mar-Apr, Oct (Dt); Slide Mt., Jl, *Pears* (Sf); Peekskill, Aug (AM); West Pt. (Robn); **SI** (L&D).
- 4586 **Q. capucinus** Grav. Buffalo (Z&R).
- 4589 **Q. bruneipennis** Mann. Ithaca, Ap (Dt); Southfields, Oct, *Schott* (Sf).

- 4595 *Q. peregrinus* Grav. Ithaca, Aug-Oct (Dt); West Pt. (Robn); Peekskill, Mar, *Sherm* (AM).  
 4599 *Q. erythrogaster* Mann. "NY" (Lg Cat.).  
 4600 *Q. mesomelinus* Marsh. **SI**, Je (L&D); **LI**: Flatbush, Aug, *Zab* (AM), May, *Schott* (Sf), as *fulgidus* Fab.  
 4601 *Q. iracundus* Say (*fulgidus* Horn). "NY" (Horn); Ithaca, Je (Dt).  
 4621 *Q. spelaeus* Horn. "NY" (Horn). Questioned by Fall.

## SUBFAMILY OXYPORINAE

## OXYPORUS Fabricius

- 4628 *O. femoralis* Grav. Newport, J1 (NYS); Olcott, Je-Aug (Dt); Ithaca, J1-Sep (Dt); White L., Nov, *Zab* (AM); West Pt.,\*Je (Sf); Peekskill, *Sherm* (AM); West Pt. (Robn); **SI**, Je-Oct (L&D); **LI**: Queens, Sep 26 (Frost); Flatbush, *Zab* (AM); Yaphank, Oct, *Eng* (Sf).  
 4631 *O. major* Grav. Cranberry L., Je (H); Peekskill, J1 (AM); West Pt. (Robn); **SI**, Sep (L&D); **LI**: Queens, Sep 19 (Frost), Sep, *Schott* (Sf); Richmond Hill (Sf).  
 4632 *O. rufipennis* Lec. Johnstown, Sep (NYS); Pike (NYS); Debruce, Aug (Ds); West Pt., Je, *Robn* (Ds).  
 4633 *O. stygicus* Say. Keene Val., Je (Not); Ft. Montgomery, Je, *Schott* (Sf); West Pt. (Robn).  
 4634 *O. vittatus* Grav. White L., Nov (AM); Albany, Karner, Sep (NYS); West Pt. (Robn); **SI** (L&D); **LI**: Flatbush, Nov, *Zab* (AM).  
 4635 *O. fasciatus* Horn. **LI**: Brooklyn, Je (Ds); Wyandanch (Sf).  
 4637 *O. lateralis* Grav. Keene Val., Je (Not); Newport, May (NYS); Olcott, Oct (Dt); Pike, May (NYS); McLean, May (Flet); West Pt. (Robn); Mosholu (Sf); **SI**, Oct (L&D); **LI**, *Eng* (Sf).  
 4637a *O. lateralis* var. *brevis* Melsh. "NY" (Melsh).  
 4638 *O. occipitalis* Fauv. Newport (NYS); Albany, Sep (NYS).  
 4639 *O. lepidus* Lec. "NY" (Lec).  
 4640 *O. quinquemaculatus* Lec. West Pt., Je, *Robn* (Ds, Sf).

## SUBFAMILY TACHYPORINAE

## TACHINUS Gravenhorst

- 4652 *T. memnonius* Grav. Gloversville, Sep (NYS); Buffalo vic. (Z&R); Pike, Nov 11 (Frost); Ithaca, Sep (Dt); Albany, Oct (NYS); Peekskill (AM); **SI**, Nov (L&D).  
 4657 *T. repandus* Horn. Windsor, Je (Not); McLean, J1 (Dt); Trenton Falls (Horn); Peekskill, May (AM); West Pt. (Robn); **SI** (AM).  
 4660 *T. addendus* Horn. Newport, May (NYS).  
 4661 *T. parallelus* Horn. Mt. Skylight, J1 (Not).  
 4663 *T. flavipennis* Dej. Newport, May (NYS); Ilion (NYS); Cranberry L., Je-J1 (H); Ithaca, Ringwood, May-Je (Dt); McLean, Je (Flet); Peekskill, Sep (AM); Suffern, May, *Schott* (Sf); **SI**, Mar-Apr, J1, in horse manure (L&D).  
 4664 *T. luridus* Er. Newport, Je (NYS); Fourth L., Je (NYS); Buffalo (ErANSP); Westfield, May (Not); Karner, Ap (NYS); McLean, Je (Flet).

- 4665 *T. fimbriatus* Grav. Newport, Je, Johnstown, Sep (NYS); Buffalo (Z&R); Pike, Je (NYS); Ithaca, Je-Sep (Dt); McLean, Sep 12 (Flet); White L., Jl, *Zab* (AM); Poughkeepsie, Je (NYS); Peekskill, Jl, Sep (AM); West Pt. (Robn); West Farms (AM); **SI**, Je-Sep (L&D); **LI**: Flatbush, *Zab* (AM); Orient, *Lath* (NYS).
- 4666 *T. picipes* Er. Wilmington, Aug (Dt); Johnstown, Sep (NYS); Woodworth's L., Jl (NYS); Cranberry L., Je 23, in decaying fungus; Buffalo (Z&R); L. George, Aug, *Zab* (AM); White L., Jl, Nov, *Zab* (AM).
- 4668 *T. limbatus* Melsh. Mooers, Sep (Not); Newport, May-Je, Wells, Jl (NYS); Wilmington, Aug (Dt); Gloversville, Sep (NYS); Johnstown, Ap (NYS); Buffalo (Z&R); Ithaca, Jl, Sep (Dt); Catskills, Aug (Ds); Hudson, Jl, *Eng* (Sf); Mosholu (Sf); West Pt. (Robn); **SI**, May-Je (L&D); **LI**, Sep, *Shoe* (Sf).
- 4669 *T. fumipennis* Say. **SI**, May (L&D).
- 4670 *T. pallipes* Grav. (*frigidus* Er.). Wilmington, Aug (Dt); Cranberry L., Je-Jl, in decaying fungus (H); Buffalo (Z&R); White L., Jl, *Zab* (AM); Ithaca, Ap, Ringwood, May (Dt); Peekskill (AM); West Pt. (Robn); **LI**, Je, *Shoe*, *Eng* (Sf).
- 4673 *T. basalis* Er. (*circumcinctus* Mäkl.). Gloversville, Sep (NYS); Ringwood, May (Dt).
- 4674 *T. nitiduloides* Horn. "NY" (Horn); Mosholu, Je (Sf). Questioned by Fall.

## TACHYPORUS Gravenhorst

- 4678 *T. maculipennis* Lec. Trenton (Horn); Peekskill, *Sherm* (AM).
- 4679 *T. elegans* Horn. Ithaca, Oct-Nov, Ringwood, May (Dt); **SI** (L&D); **LI**, Ap, Aug, *Shoe* (Sf).
- 4681 *T. jocosus* Say. Mt. Whiteface, Aug (Dt); Axton, Je (M&H); Sodus Pt., May (Not); Olcott, Ap (Dt); Buffalo (Z&R); McLean, Nov (Dt); Windsor, Je (Not); Peekskill, May, Jl (AM); **SI**, Jan (L&D); **LI**: Flushing, Mar (Ds).
- 4682 *T. chrysomelinus* L. Axton, Je (M&H); Cranberry L., Jl (Drk); Gloversville, Nov (NYS); Olcott, Ap (Dt); Buffalo (Z&R); Castile, May, *Brad* (Flet); McLean, May (Dt); Windsor, Je (Not); Washington Co, Aug (AM).
- 4682a *T. chrysomelinus* var. *acaudus* Say. Cranberry L., Je (H); Syracuse, Montour Falls, Ap-May, under stones, herbage (H).
- 4686 *T. nitidulus* Fab. (*brunneus* Fab.). Syracuse, Montour Falls, Ap-Je (H); Sodus Pt., May (Not); Olcott, Ap (Dt); Westfield, May, Windsor, Je (Not); Peekskill, Mar-Apr (AM); **SI**, Mar, Nov, on salt meadow (L&D).

## LEUCOPARYPHUS Kraatz

- 4687 *L. silphoides* L. Gloversville, Oct (NYS); Oswego, Aug, *Bks* (NYS); Buffalo (Z&R).

## ERCHOMUS Motschulsky

- 4690 *E. ventriculus* Say. Axton, Je (M&H); Elizabethtown, Aug, Newport, Je (NYS); Cranberry L., Je, under bark of dead logs (H); Herkimer Co, *Yg* (AM); Syracuse, under bark (H); Buffalo (Z&R); Batavia, Sep (Kngt); Castile, *Brad* (Flet); Olcott, Ithaca, very common under



bark of logs in damp woods (Dt); Westfield, May (Not); McLean, Sep 20 (Flet); Albany, Oct, Delmar, May, Cedar Hill, Ap, Nassau, Ap, Normanskill, Ap (NYS); **SI**, Ap-May, under bark (L&D); **LI**: Aqueduct, May, *Shoe* (Sf).

## CONOSOMA Kraatz

- 4695 **C. knoxi** Lec. Newport, May (NYS); Cranberry L., Jl 4, under piece of bark on ground (H); **SI** (L&D).
- 4696 **C. littoreus** L. Potsdam, May (NYS); Newport, May (NYS); Cranberry L., Je 6, in decaying fungi (H); Peekskill, May-Je (AM).
- 4697 **C. opicus** Say. Newport, May (NYS); Windsor, Je (Not); West Pt. (Robn); **SI**, Ap, Je, *Woodr* (L&D).
- 4698 **C. imbricatus** Csy. Newport, May (NYS); Ithaca, May, *Bish* (NYS); Albany, Nov, Greenville, Ap (NYS); Peekskill, *Sherm*; Van Cort. Pk., West Farms, as *pubescens* Payk. (AM); **SI**, Oct, Dec, under weeds in garden and on fungus (L&D); **LI**: Mar, *Eng* (Sf); Riverhead, Ap (NYS).
- 4700 **C. velocipes** Csy. Near NYC (Csy).
- 4705 **C. basalis** Er. Syracuse (H); Ithaca, Ap (Dt); West Pt. (Robn); **SI**, Ap, Je, Sep (L&D); **LI**: Central Pk., May, *Eng* (Sf).
- 4706 **C. occulatus** Csy. Westfield, May (Not).
- 4707 **C. crassus** Grav. Newport, May (NYS); Cranberry L., Je 25, in decaying fungi (H); Johnstown, Sep (NYS); Buffalo (Z&R); Pike (NYS); Ithaca, Sep (Dt); McLean, Jl (Dt); Schoharie (Not); Kinderhook, Je (NYS); **SI**, May-Sep (L&D); **LI**: Rosedale, Oct, *Eng* (Sf); Riverhead, Ap (NYS).
- 4713 **C. scriptus** Horn. Newport (NYS); Johnstown, Sep (NYS).

## BOLITOBIUS Stephens

- 4716 **B. niger** Grav. Newport (NYS).
- 4718 **B. axillaris** Grav. Johnstown, Sep (NYS).
- 4719 **B. dimidiatus** Er. Fourth L., Je (NYS); Ft. Montgomery, Jl (Ds); **SI**, Sep (L&D); **LI**: Wyandanch, Aug, *Schott* (Sf).
- 4720 **B. nepigonensis** Bnhr. Cranberry L., Jl 2-7, in dying beech (H).
- 4721 **B. intrusus** Horn. Sodus Pt., Je (Not); Ithaca, May (NYS); Ramapo (Sf).
- 4722 **B. cingulatus** Mann. Newport, May (NYS); Tuckahoe, Nov, *Schott* (Sf); **SI**, Ap, *Shoe* (Sf); **LI**: Bellport, Aug, *Nic* (Sf).
- 4723 **B. cincticollis** Say. Axton, Je (M&H); Newport, May (NYS); Fourth L., Je (NYS); Cranberry L., Je (H); Buffalo (Z&R); Windsor, Je (Not); Karner, May (NYS); West Pt. (Robn); **SI** (L&D).
- 4724 **B. anticus** Horn. Newport (NYS); Gloversville, Sep (NYS); Mosholu (Sf); **SI**, Aug, Nov (L&D).
- 4727 **B. trinotatus** Er. Cranberry L., Je 23, in decaying fungus (H); Newport, May (NYS); Johnstown, Sep (NYS); Albany, Sep. and S. Westerlo, May (NYS); L. George, Aug, *Zab* (AM); Peekskill, Jl, *Sherm* (AM); West Pt. (Robn); Mosholu (Sf); **SI** (L&D); **LI**: Flatbush, Nov 8. *Zab* (AM).

- 4729 **B. obsoletus** Say. Poughkeepsie, Aug (NYS); Peekskill, Sep (AM).  
 4730 **B. cinctus** Grav. Newport, May (NYS); Buffalo (Z&R); Peekskill, Jl (AM); West Pt. (Robn); **LI**: Yaphank, Oct, *Eng* (Sf).  
 4732 **B. quaesitor** Horn. Newport (NYS); Windsor, Je (Not).

## BRYOPORUS Kraatz

- 4737 **B. rufescens** Lec. Elizabethtown, Aug, Big Moose, Jl, Newport, May, Ilion, May (NYS); Olcott, Ap (Dt); Westfield, May, Windsor, Je (Not); Karner, Je (NYS); Peekskill, May, *Sherm* (AM); West Pt. (Robn); Mosholu, Je (Sf).

## MYCETOPORUS Mannerheim

- 4738 **M. humidus** Say. **LI**: Rockaway Beach, Je, *Schott* (Sf); Forest Pk., Ap, *Pears* (Sf).  
 4739 **M. horni** Lg. Keene Val., Jl (Not).  
 4740 **M. consors** Lec. Ringwood, May (Dt).  
 4742 **M. americanus** Er. Cranberry L., Je (H); Syracuse, May (H); **LI**: Little Neck, Ap, *Schott* (Sf).  
 4742a **M. americanus** var. **lucidulus** Lec. Keene Val., Je, Tivoli, May (Not).  
 4743a **M. flavicollis** Lec. var. **pictus** Horn. McLean, May 16 (Flet).  
 4744 **M. splendidus** Grav. Syracuse, May (H).

## SUBFAMILY HABROCERINAE

## HABROCERUS Erichson

- 4752 **H. schwarzi** Horn. "NY" (Horn); Van Cort. Pk., Oct, *Nic* (Sf); **LI**: North Beach, Jan, *Schott* (Sf).

## SUBFAMILY TRICHOPHYINAE

## TRICHOPHYA Mannerheim

- 4755 **T. pilicornis** Gyll. Westfield, May (Not); Red House, Je (Not); near NYC (Csy).

## SUBFAMILY ALEOCHARINAE

## DEINOPSIS Matthews

- 4757 **D. americana** Kr. NY (ANSP); Ithaca, May (Dt, Fenyes).

## GYMNUSA Gravenhorst

- 4760 **G. brevicollis** Payk. Ithaca, May (Dt, Fenyes); McLean, May (Flet).

## MYLLAENA Erichson

- 4764 **M. dubia** Grav. Peekskill, *Sherm* (AM).  
 4765 **M. intermedia** Er. Westfield, May (Not).

- 4766 *M. minuta* Grav. **SI**, Je (L&D).  
 4770 *M. vulpina* Bnhr. Mooers, Sep (Not); Westfield, May, Windsor, Je (Not); Schoharie (Not).  
 4772 *M. audax* Csy. Near NYC (Csy).  
 4773 *M. abdita* Csy. Westfield, May (Not).  
 4776 *M. procidua* Csy. "NY" (Csy).

**LEPTOBAMONA** Casey

- 4797 *L. pertenuis* Csy. Keene, Jl, Jay, Aug, Canisteo, Je (Not).

**GYRONYCHA** Casey

- 4798 *G. valens* Csy. Ithaca, Aug (Dt, Fenyes).  
 4801 *G. fusciceps* Csy. Catskills (Csy).  
 4803 *G. longicornis* Csy. Westfield, May (Not); Ithaca (Csy).

**SOMATIUM** Wollaston

- 4814 *S. nugator* Csy. Peekskill, Dec (Sherm).

**OLIGOTA** Mannerheim

- 4825 *O. pusillima* Grav. NYC (Julich).  
 4826 *O. parallela* Csy. **LI**: Willetts Pt. (Csy).  
 4827 *O. linearis* Csy. "NY" (Csy).

**PLACUSA** Erichson

- 4842 *P. tachyporoides* Walfl. Cranberry L., Jl 5 (H); Olcott, Aug, *Dt* (Fenyes).  
 4844 *P. despecta* Er. Albany, May (NYS).  
 4845 *P. tacomae* Csy. Olcott, Dec, *Dt* (Fenyes).

**SILUSA** Erichson

- 4857 *S. valens* Csy. Catskills (Csy).

**THECTUROTA** Casey

- 4875 *T. demissa* Csy. Catskills (Csy).

**THECTURA** Thomson

- 4880 *T. cuspidata* Er. Westfield, May (Not).  
 4881 *T. americana* Csy. "NY" (Csy).

**LEPTUSA** Kraatz

- *L. laticollis* Not. Westfield, May (Not).  
 4892 *L. opaca* Csy. Olcott, Aug, *Dt* (Fenyes).  
 4893 *L. seminitens* Csy. "NY" (Csy).  
 4899 *L. pavida* Csy. "NY" (Csy).

**BOLITOCHARA** Mannerheim

- 4928 *B. marginella* Csy. Mooers, Sep (Not); Cranberry L., Je (H); Olcott, Sep, *Dt* (Fenyès).  
 4929 *B. picta* Csy. W. Hebron (Lg); near NYC (Csy); **SI**, Je (L&D).  
 4930 *B. blanchardi* Csy. Olcott, Aug-Sep, *Dt* (Fenyès); Windsor, Je (Not).  
 — ?*B. trimaculata* Er. Olcott, Aug, *Dt* (Fenyès). The *tristigma* of Casey, which may or may not be the *trimaculata* of Er. (Fall).

**HOMALOTA** Mannerheim

- 4937 *H. plana* Gyll. Cranberry L., J1 (H); Westfield, May (Not).  
 4942 *H. humilis* Csy. "NY" (Csy).

**EUMICROTA** Casey

- 4947 *E. corruscula* Er. Olcott, Je, *Dt* (Fenyès); Catskills (Csy); **SI**, Sep (L&D).  
 4950 *E. socia* Er. Tivoli, May (Not).  
 4952 *E. pallidula* Csy. Catskills (Csy).

**GYROPHAENA** Mannerheim

- 4956 *G. affinis* Sahlb. Newport, May (NYS); Olcott, Aug, *Dt* (Fenyès).  
 4959 *G. vitrina* Csy. Catskills (Csy).  
 4960 *G. attonsa* Csy. Catskills (Csy).  
 4961 *G. flavicornis* Melsh. Cranberry L., Je (H); Windsor, Je (Not); Catskills (Csy).  
 4963 *G. gaudens* Csy. Red House, Je (Not).  
 4966 *G. lobata* Csy. Mooers, Sep (Not); Albany, Sep (NYS); Catskills (Csy); **SI** (L&D).  
 4967 *G. involuta* Csy. Catskills (Csy).  
 4968 *G. antennalis* Csy. Catskills (Csy).  
 4970 *G. fuscicollis* Csy. Catskills (Csy).  
 4971 *G. modesta* Csy. Catskills (Csy).  
 4972 *G. gilvicollis* Csy. "NY" (Csy).  
 4977 *G. sculptipennis* Csy. Catskills (Csy).  
 4978 *G. subpunctata* Csy. Catskills (Csy).  
 4980 *G. laetula* Csy. Catskills (Csy).  
 4982 *G. fustifer* Csy. Peekskill (Csy).  
 4983 *G. centralis* Csy. Catskills (Csy).  
 4987 *G. subnitens* Csy. Keene, Keene Val., J1, Tivoli, May (Not).  
 4988 *G. compacta* Csy. Tivoli, May (Not).  
 4995 *G. fasciata* Say (*vimula* Er.). Mooers, Sep (Not); Newport, May (NYS); Olcott, Aug, *Dt* (Fenyès); Parkville, J1 (AM); **SI** (L&D).  
 4996 *G. ocularis* Csy. Catskills (Csy).  
 4999 *G. dissimilis* Er. **SI**, Je (L&D).

**XENODUSA** Wasmann

- 5008 **X. cava** Lec. Johnstown, Oct (NYS); Ithaca, JI, *Dt* (Fenyés).

**MYRMEDONIA** Erichson

- 5018 **M. caliginosa** Csy. Catskills (Csy).  
 5022 **M. obliqua** Csy. "NY" (Csy).  
 5026 **M. lauta** Csy. "NY" (Csy).

**HOPLANDRIA** Kraatz

- 5037 **H. lateralis** Melsh. Westfield, May, Windsor, Je (Not); **SI**, Oct (L&D).  
 5038 **H. pulchra** Kr. W. Hebron (Lg).  
 5039 **H. ochracea** Kr. "NY" (Lg).

**TRICHIUSA** Casey

- 5058 **T. transversa** Csy. Westfield, May (Not).  
 5070 **T. robustula** Csy. Cranberry L., Je 28 (H).

**TINOTUS** Sharp

- 5083 **T. caviceps** Csy. **SI** (Fenyés).  
 5085 **T. pallidus** Csy. Olcott, Je-JI (Dt); Ithaca, Je (Dt).  
 5089 **T. imbricatus** Csy. Catskills (Csy).  
 — **T. lateralis** Not. Westfield, May (Not).

**PHILOTERMES** Kraatz

- 5098 **P. pilosus** Kr. **LI**: Flatbush, May, from nest of *Termes flavipes*, *Zab* (AM).

**ATHETA** Thomson

- 5099 **A. divisa** Märk. Cranberry L., Je-JI (H); Olcott, JI, *Dt* (Fenyés).  
 5102 **A. coriaria** Kr. Olcott, Aug, *Dt* (Fenyés).  
 5104 **A. ventricosa** Bnhr. N. Elba (AM); Cranberry L., Je (H); Ithaca, Aug, *Good* (Fenyés).  
 5106 **A. nigrifula** Grav. Windsor, Je (Not); **LI**: Brooklyn, JI (Bnhr).  
 5112 **A. virginica** Bnhr. Cranberry L., Je (H); Ithaca, Je, *Dt* (Fenyés).  
 5120 **A. frosti** Bnhr. Olcott, Sep, *Dt* (Fenyés).  
 5122 **A. obsoleticollis** Bnhr. Olcott, Sep, *Dt* (Fenyés).  
 5132 **A. klagesi** Bnhr. Olcott, Sep-Oct, *Dt* (Fenyés); **SI** (L&D).  
 5138 **A. vaticina** Csy. **LI**: Willetts Pt. (Csy).  
 5139 **A. iterans** Csy. Near NYC (Csy).  
 5140 **A. enitescens** Csy. Ithaca (Csy).  
 5149 **A. rusticula** Csy. Catskills (Csy).  
 5151 **A. catula** Csy. Catskills (Csy).  
 5153 **A. candidula** Csy. Catskills (Csy).



- 5154 *A. diffusa* Csy. Catskills (Csy).  
 5161 *A. gnoma* Csy. Catskills (Csy).  
 5162 *A. elota* Csy. Catskills (Csy).  
 5163 *A. insidiosa* Csy. Catskills (Csy).  
 5164 *A. ducens* Csy. Catskills (Csy).  
 5165 *A. tradita* Csy. Catskills (Csy).  
 5169 *A. auguralis* Csy. Catskills (Csy).  
 5171 *A. dama* Csy. Catskills (Csy).  
 5173 *A. tractabilis* Csy. Catskills (Csy).  
 5174 *A. ordinata* Csy. Catskills (Csy).  
 5181 *A. strigulosa* Csy. Catskills (Csy).  
 5187 *A. discipula* Csy. Catskills (Csy).  
 5209 *A. nupera* Csy. **LI**: Willetts Pt. (Csy).  
 5211 *A. citata* Csy. Catskills (Csy).  
 5212 *A. nympa* Csy. Catskills (Csy).  
 5213 *A. discreta* Csy. Catskills (Csy); W. Hebron (Lg).  
 5219 *A. spadix* Csy. Near NYC (Csy).  
 5230 *A. irvingi* Csy. Catskills (Csy).  
 5230a *A. irvingi* var. *affluens* Csy. **LI** (Csy).  
 5230b *A. irvingi* var. *clarescans* Csy. Catskills (Csy).  
 5235 *A. sororella* Csy. Catskills (Csy).  
 5236 *A. officiosa* Csy. Catskills (Csy).  
 5237 *A. tuta* Csy. Ithaca (Csy).  
 5239 *A. spuriella* Csy. Catskills (Csy).  
 5248 *A. alutacea* Csy. Ithaca, *Sm* (Csy).  
 5250 *A. dentata* Bnhr. Cranberry L., Je 30 (H); Westfield, May, Windsor, Je (Not); Schoharie (Not).  
 5300 ?*A. festinans* Er. Olcott, Feb, *Dt* (Fenyés).  
 5302 ?*A. polita* Melsh. Olcott, *Jl*, *Dt* (Fenyés).  
 5307 *A. pennsylvanica* Bnhr. Ithaca, Ap, Aug, *Good* (Fenyés); Catskills (Csy).  
 5308 *A. unigena* Csy. Catskills (Csy).  
 5314 *A. palustris* Kies. Mooers, Sep (Not); Cranberry L., Je 27-29 (H); Buffalo (Hamilton); Westfield, May, Windsor, Je (Not); Olcott, Mar, *Dt* (Fenyés); Westfield, May, Windsor, Je (Not); Brookton, Ap, *Dt* (Fenyés); Schoharie (Not).  
 5316 *A. repanda* Csy. Ithaca (Csy); Catskills (Csy).  
 5318 *A. frugalis* Csy. Catskills (Csy).  
 5319 *A. leviceps* Csy. Catskills (Csy).  
 — *A. inconspicua* Er. "NY", *Sherm* (AM). A European species.  
 — *A. luridipennis* Mann. West Farms, Oct (AM).

#### TRAUMOEZIA Rey

- 5338 *T. obsequens* Csy. Catskills (Csy).  
 5354 *T. ithacana* Csy. Ithaca (Csy).  
 5357 *T. asperiola* Csy. "NY" (Csy).

- 5366 *T. fecunda* Csy. Catskills (Csy).  
 5368 *T. tincta* Csy. "NY" (Csy).  
 5370 *T. ingratura* Csy. Windsor, May-Je (Not).  
 5371 *T. recessa* Csy. Catskills (Csy).

## AMPHIBITHERION Notman

- A. demissum* Not. Westfield, May (Not).

## DINARAEA Thomson

- 5384 *D. subdepressa* Bernh. Westfield, May (Not).  
 — *D. angustula* Gyll. Buffalo (Hamilton).

## METAXYA Rey

- 5401 *M. dichroa* Grav. Mooers, Sep (Not); **SI**, Feb 22, in sifting, *Woodr* (L&D).  
 5413 *M. impotens* Csy. Ithaca (Csy).  
 5413a *M. impotens* var. *albanica* Csy. Catskills (Csy).  
 5425 *M. complana* Mann. **SI**: Watchogue, Ap 22 (L&D).  
 — *M. vilis* Er. Westfield, May (Not).  
 — *M. magniceps* Sahl. Windsor, Je (Not).  
 — *M. obscuricornis* Not. Mooers, Oct, Dec (Not).

## HYDROSMECTA Thomson

- 5432 *H. caduca* Csy. Westfield, May (Not); Catskills (Csy).  
 5439 *H. rarula* Csy. Ithaca (Csy).  
 5447 *H. scenica* Csy. Near NYC (Csy).  
 — *H. torrida* Not. Westfield, May (Not).  
 — *H. tincta* Not. Westfield, May (Not).

## ALOCONOTA Thomson

- 5453 *A. sulcifrons* Steph. Buffalo (Hamilton).  
 5454 *A. cambrica* Woll. Westfield, May, Windsor, Je (Not).  
 5459 *A. brunneipes* Csy. Ithaca, *Sm* (Csy).  
 5461 *A. ventralis* Csy. Ithaca, *Sm* (Csy).

## AMISCHA Thomson

- 5473 *A. analis* Grav. N. Elba, Oct (Lg); Cranberry L., Je 23 (H); Westfield, May (Not); Ithaca, Aug, *Good* (Fenyess); Mosholu (AM).  
 5478 *A. normalis* Csy. Near NYC (Csy).

## DATOMICRA Rey

- 5507 *D. decolorata* Csy. Catskills (Csy).  
 5508 *D. inopia* Csy. Catskills (Csy).  
 5511 *D. diffidens* Csy. Catskills (Csy).

- 5512 *D. vacans* Csy. Catskills (Csy).  
 5517 *D. hebesens* Csy. Catskills (Csy).  
 5522 *D. filiformis* Csy. Catskills (Csy); **LI**: Bellport, J1 (Nic).  
 5523 *D. particula* Csy. Catskills (Csy).  
 5526 *D. atomica* Csy. Catskills (Csy).

**SYNAPTINA** Casey

- 5531 *S. consonens* Csy. Near NYC (Csy).

**DIMETROTA** Rey

- 5560 *D. novella* Csy. **LI**: Willetts Pt. (Csy).

**SABLETA** Casey

- 5570 *S. flaveola* Melsh. **SI**, Aug (L&D).  
 5572 *S. ornator* Csy. Catskills (Csy).

**PSEUDOTA** Casey

- 5588 *P. puricula* Csy. Catskills (Csy).  
 5589 *P. fascinans* Csy. Catskills (Csy).

**ARISOTA** Casey

- 5598 *A. tetricula* Csy. Ithaca (Csy); Catskills (Csy).

**PANCOTA** Casey

- 5604 *P. collaris* Csy. Catskills, *Sm* (Csy).  
 5605 *P. redundans* Csy. Catskills (Csy).  
 5610 *P. cupiens* Csy. Catskills (Csy).  
 5611 *P. laetabilis* Csy. Catskills (Csy).  
 5614 *P. luteola* Er. N. Elba, Oct (Lg).  
 5618 *P. euphonia* Csy. Catskills (Csy).  
 5620 *P. panda* Csy. Windsor, Je (Not).  
 5623 *P. reclusa* Csy. Catskills (Csy).

**ACROTONA** Thomson

- 5627 ?*A. fungi* Grav. Olcott, Mar 26, Ap 19, J1 23, *Dt* (Fenyès).  
 5630 *A. clientula* Er. Westfield, May (Not).  
 5631 *A. modesta* Melsh. Cranberry L., Je 30 (H); Ithaca, May-Je, Sep, *Dt* (Fenyès); **SI**, Mar (L&D).  
 5636 *A. fusiformis* Csy. NYC, *Sm* (Csy).

## COLPODOTA Rey

- 5650 *C. puritana* Csy. Mooers, Sep (Not).  
 5653 *C. acutella* Csy. Catskills (Csy).  
 5654 *C. egregiella* Csy. Ithaca, Catskills (Csy).  
 5659 *C. assecla* Csy. Catskills (Csy).  
 — *C. parva* Sahlb. Westfield, May, Windsor, Je (Not).

## COPROTHASSA Thomson

- 5678 *C. sordida* Marsh. Cranberry L., Je-Jl (H); Olcott, Je, Sep, *Dt* (Fenyès); Buffalo, as *luridipennis*, fide Fenyès (Z&R); Montour Falls, Je (H); Ithaca, Je, Sep, *Dt* (Fenyès); Windsor, Je (Not); West Farms (AM).  
 5679 *C. smithi* Csy. Catskills (Csy).

## STRIGOTA Casey

- 5681 *S. oppidana* Csy. Near NYC (Csy).

## GNYPETA Thomson

- 5702 *G. nigrella* Lec. (*brunescens* Csy.). Olcott, Jl, *Dt* (Fenyès); Ithaca, Jl, *Dt* (Fenyès); near NYC (Csy).  
 5703 *G. baltifera* Lec. Olcott, Je, *Dt* (Fenyès); LI: Coney I. (Lec).  
 5708 *G. atrolucens* Csy. Catskills (Csy, Fenyès).

## TACHYUSA Erichson

- 5722 *T. smithi* Csy. Catskills, *Sm* (Csy).  
 5725 *T. americana* Csy. Olcott, Jl, *Dt* (Fenyès); Westfield, May (Not); Ithaca, Catskills (Csy).  
 5726 *T. silvatica* Csy. Ithaca (Csy).  
 5730 *T. cavicollis* Lec. Ithaca, Jl, *Dt* (Fenyès); Windsor, Je (Not).  
 5736 *T. pruinosa* Csy. Catskills, *Sm* (Csy).

## MERONERA Sharp

- 5743 *M. venustula* Er. Mooers, Sep (Not); Buffalo (Z&R); Olcott, Feb, Ap, *Dt* (Fenyès); Ithaca, Je, *Dt* (Fenyès); Cortland, Jl, *Bks* (NYS); West Pt. (Robn); SI, Feb 22, in sifting, *Woodr* (L&D).  
 5745 *M. obliqua* Csy. Catskills, *Sm* (Csy).

## BORBOROPORA Kraatz

- 5747 *B. quadriceps* Lec. "NY", Ap (Lec, Csy).

## CARDIOLA Rey

- 5750 *C. obscura* Grav. NY (from Jour. NY Ent. Soc., 20:25).

## ALEODORUS Say

- 5751 *A. bilobatus* Say. "NY" (Lg); **LI**: Coney I. (Lec).  
 5753 ?*A. partitus* Lec. Buffalo (Z&R).

## FALAGRIA Mannerheim

- 5755 *F. dissecta* Er. (*ithacana* Csy.). Cranberry L., Je-Jl (H); Mooers, Sep (Not); Gloversville, Mar (NYS); Syracuse, Ap, skeleton (H); Buffalo (Z&R); Windsor, Je (Not); Ithaca, Catskills (Csy); Peekskill, Mar (AM); Mosholu (AM); **SI**, Ap (L&D).

## LORINOTA Casey

- 5757 *L. cingulata* Lec. Newport, May (NYS); Olcott, Aug, Oct, *Dt* (Fenyes); Westfield, May (Not); Ithaca, Nov, *Dt* (Fenyes).

## ANAUASCASPIS Ganglbauer

- 5762 *A. perexilis* Csy. (*hudsonica* Csy.). Catskills (Csy).

## ALEOCHARA Gravenhorst

- 5763 *A. curtula* Goeze. **SI** (L&D) as *brachyptera* Fourc.; **LI** (AM).  
 5764 *A. lustrica* Say. Ithaca, Sep-Oct, *Dt* (Fenyes); McLean Bogs, Aug, *Dt* (Fenyes); **LI** (Csy).  
 5764a *A. lustrica* var. *sternalis* Csy. Ithaca, Catskills (Csy).  
 5766 *A. lata* Grav. Newport, Je (NYS); Ilion, May (NYS); Buffalo (Z&R); Pike, Ap (NYS); Montour Falls, Ap, on carrion (H); Westfield, May (Not); Ithaca, Mar, Nov, *Dt* (Fenyes); West Pt. (Robn); West Farms (LgAM); **SI**, Ap, in dead log (L&D); **LI**: Astoria (AM); Orient, *Lath* (NYS).  
 5767 *A. rubripes* Blatch. Newport, May (NYS); Olcott, Mar, *Dt* (Fenyes).  
 5771 *A. medialis* Csy. Catskills (Csy).  
 5774 *A. pleuralis* Csy. Newport (NYS); McLean, Je, Aug, *Dt* (Fenyes); near NYC (Csy).  
 5775 *A. americana* Csy. **SI** (L&D).  
 5780 *A. puberula* Klug. Peekskill, May, *Sherm* (Fenyes).  
 5784 *A. rubripennis* Csy. Westfield, May (Not).

## BARYODMA Thomson

- 5797 *B. defecta* Csy. Catskills (Csy).  
 5799 *B. sculptiventris* Csy. Cranberry L., Jl 2 (H); Olcott, Je, *Dt* (Fenyes); Montour Falls, Je (H); Westfield, May (Not); Ithaca, May-Je, Sep, *Dt* (Fenyes); Catskills (Csy).  
 5806 *B. bimaculata* Grav. Newport, May (NYS); Potsdam (Houghton); Cranberry L., Je 25 (H); Oswego, Jl, *Bks* (NYS); Buffalo (Z&R); Windsor, Je (Not); **SI**, May-Je (L&D).  
 5820 *B. nitida* Grav. Shokan (Thompson); **SI**, Aug (L&D).



## EMPLENOTA Casey

- 5833 *E. maritima* Csy. NY to Va (Csy).

## HOMOEUSA Kraatz

- 5858 *H. crinitula* Csy. NY (Jour. NY Ent. Soc., 8:54).

## CRATARAEA Thomson

- 5866 *C. suturalis* Mann. Keene Val., Je (Not).

## ISCHNOGLOSSA Kraatz

- 5872 *I. abscissa* Csy. Westfield, May (Not).

## THIASOPHILA Kraatz

- 5876 *T. laticollis* Csy. Olcott, May, *Dt* (Fenyès).  
—— *T. parvula* Not. Westfield, May (Not).

## STICHOGLOSSA Fairmaire

- 5882 *S. corticina* Er. Olcott, May–Oct, *Dt* (Fenyès).

## DASYGLOSSA Erichson

- 5884 *D. fenyési* Bnhr. Mt. Marcy, Oct (Lg).

## HYLOTA Casey

- 5885 *H. ochracea* Csy. Near NYC (Csy).

## OXYPODA Mannerheim

- 5889 *O. sagulata* Er. "NY" (Er).  
5896 *O. convergens* Csy. Catskills (Csy).  
5900 *O. hudsonica* Csy. Near NYC (Csy).  
5905 *O. stygica* Csy. Near NYC (Csy).  
5910 ?*O. perexilis* Csy. "NY" (Csy).  
5921 *O. rubescans* Csy. Catskills (Csy).  
5937 *O. canora* Csy. Catskills (Csy).  
—— *O. schaefferi* Not. Windsor, Je (Not).

## CALLICERUS Gravenhorst

- 5990 *C. puberulus* Csy. "NY" (Csy).

**CHILOPORA** Kraatz

- 5992 **C. americana** Csy. Peekskill (Csy).

**PACHYCEROTA** Casey

- 6017 **P. duryi** Csy. Ithaca, Je, *Dt* (Fenyès).

**PHLOEOPORA** Erichson

- 6020 **P. corticalis** Grav. (*ferruginea* Csy.). Olcott, May, *Dt* (Fenyès).

FAMILY **PSELAPHIDAE** <sup>37</sup>**TRIMIOMELBA** Casey

- 6054 **T. dubia** Lec. Peekskill, Ap (Sherm); Ramapo (Sf).

**ACTIUM** Casey

- 6065 **A. foveicolle** Lec. **LI**: Yaphank, May (Not).  
 6066 **A. angustum** Csy. Ramapo (Sf).  
 6071 **A. globifer** Lec. Ramapo (Sf); NY, type locality; **LI**: Baldwin, May 10, *Ds* (Nic).

**PSEUDACTIUM** Casey

- 6073 **P. mellinum** Csy. Keene Val., Lowville, Je (Not).

**MELBA** Casey

- 6078 **M. fossiger** Csy. **LI**: Wyandanch, Oct 30 (Nic).

**TRIMIOPECTUS** Brendel

- 6090 **T. obsoletus** Bndl. Brooklyn, Je 16, *Franck* (Nic).

**EUPLECTUS** Leach

- 6093 **E. confluens** Lec. Peekskill, Je (Sherm).  
 6095 **E. elongatus** Bndl. Keene Val., May, Je, *Jl* (Not).  
 6100 **E. rotundicollis** Bndl. Keene Val., Je (Not).  
 6109 **E. hudsonicus** Csy. NY (Csy).

**BIBLOPORUS** Thomson

- 6126 **B. bicanalis** Csy. NY (Csy).

**BIBLOPECTUS** Reitter

- 6127 **B. ruficeps** Lec. **LI**: Wyandanch, Ap 3, in sphagnum bog (Nic).

<sup>37</sup> Alan S. Nicolay has gone over the manuscript for this family, made some changes, and supplied many records.

## RAMECIA Casey

- 6131 *R. crinita* Bndl. Buffalo (Z&R), as *Euplectus crinitus*; Westfield, Je (Not).

## RHEXIDIUS Casey

- 6155 *R. canaliculatus* Lec. Ramapo, May (AM); Peekskill, Sep, *Sherm* (Lg); **LI**: Wyandanch, Oct 30 (Nic).

## RHEXIUS LeConte

- 6158 *R. insculptus* Lec. Westfield, May (Not); Windsor, Je (Not).

## BATRISODES Reitter

- 6174 *B. monstrosus* Lec. Buffalo (Z&R).  
 6174a *B. monstrosus* var. *ferox* Lec. **SI** (L&D); **LI**: Jamaica, Ap 12, in ant's nest under stone (Nic).  
 6188 *B. schaumii* Aubé. Greenwood L., May (Not).  
 6189 *B. riparius* Say. Peekskill, Mar, *Sherm* (Lg).  
 6190 *B. uncicornis* Csy. NYC (Csy).  
 6191 *B. scabriceps* Lec. **LI**: Flushing, *Dow* (Nic); Amagansett, Sep 21, from nest of *Formica exsectoides*, *Ds* (Nic).  
 6194 *B. lineaticollis* Aubé. **LI**: Jamaica (Nic).  
 6200 *B. globosus* Lec. Westfield, May (Not); Peekskill, *Sherm* (Lg); Buffalo (Z&R); Ramapo Mts., May 5 (AM); Suffern, May 26 (AM); **SI**, Ap, with ants under a log and also under bark (L&D); **LI**: common throughout the island, under bark, stones, etc. (Nic).  
 6201 *B. spretus* Lec. Windsor, Je (Not).  
 6202 *B. foveicornis* Csy. **LI**: Flushing, Amagansett, *Ds* (Nic).  
 6204 *B. punctifrons* Csy. Keene Val., May, Je, Jl (Not); **LI**: Hauppauge, Ap (Not).  
 6211 *B. denticollis* Csy. NY (Csy).  
 6212 *B. triangulifer* Bndl. **LI** (type locality): Wyandanch, Ap 3, from sphagnum bog (Nic).  
 6213 ?*B. nigricans* Lec. **SI**, Mar, Nov, on salt meadow (L&D).  
 6216 *B. striatus* Lec. Rochester (M&W); **SI**, Mar, Ap, Nov, several times on salt meadow (L&D); **LI**: Wyandanch, Nov 7 (Nic), Ap 3, *Shoe* (Nic); Queens (*Dow*).

## NISAXIS Casey

- 6225 *N. tomentosa* Aubé. **LI**: Jamaica, May, *Pears* (Nic). *Reichenbachia minuta* Bndl. is identical with this species, fide Casey in Ann. N. Y. Acad. Sci., vol. 9, p. 593.

## BRACHYGLUTA Thomson

- 6230 *B. abdominalis* Aubé. Peekskill, May 30, *Sherm* (AM); **SI**, Feb-May (L&D); **LI**: common in salt marshes at Flatbush, Brooklyn, Rockaway Beach, etc., Ap-May (Nic).

- 6232 **B. intermedia** Bndl. "NY" (Bndl).  
 6233 **B. labyrinthea** Csy. "NY" (Csy).  
 6235 **B. illinoisensis** Bndl. "NY" (Bndl).  
 6237 **B. intricata** Csy. "NY" (Csy).  
 6238 **B. terebrata** Csy. (*perforata* Bndl.). Madison Co (?), May 20 (H); **LI**: (Csy); Jamaica, May, *Pears* (Nic).  
 6247 **B. luniger** Lec. Peekskill, May, *Sherm* (Lg); **SI**, May, on seashore (L&D); **LI**, May 30, *Shoe* (Nic).  
 6248 **B. cavicornis** Bndl. Peekskill (Ds); **SI**, May, on salt meadow (L&D), Mar 17 (Frost).  
**B. elegans** Bndl. **LI**: Jamaica (Frost).

## REICHENBACHIA Leach

- 6251 **R. gemmifer** Lec. Keene Val., May (Not).  
 6257 **R. divergens** Lec. Peekskill, Mar 26 (AM), Ap (*Sherm*); **LI**: Jamaica, Ap 27, *Pears* (Nic); Queens (*Dow*); Wyandanch, Nov, in sphagnum, *Sf*, *Ds*, *Shoe* (Nic); Yaphank, Ap (Brb).  
 — **R. minuta** Bndl. NY (Bndl).  
 6260 **R. congener** Bndl. Peekskill, Mar (*Sherm*); **SI** (L&D); **LI**: (Bndl); Jamaica, May, *Pears* (Nic).  
 6261 **R. facilis** Csy. **LI** (Csy); Queens, *Dow* (Nic); Jamaica, Ap 27, *Pears* (Nic); Wyandanch, Ap-Nov, in sphagnum bog, *Sf*, *Ds*, *Shoe* (Nic).  
 6262 **R. scabra** Bndl. **LI**: (Bndl); Wyandanch, Ap 3, rare, in sphagnum, *Shoe* (Nic).  
 6264 **R. rubicunda** Aubé. Westchester Co, May, *Dow* (Nic); **SI**, Feb 22 (L&D).  
 6265 **R. fusciventris** Csy. Westchester Co, May, *Dow*, as *gracilis* (Nic); **LI**: Brooklyn, May 8, in salt marsh, North Beach, Dec, Feb (Schott). Most of the *rubicunda* and *gracilis* records belong to this species (Nic).  
**R. insolita** Csy. Suffern (AM).  
 6269 **R. gracilis** Csy. Keene Val., Je, J1 (Not).  
 6276 **R. puncticollis** Lec. **LI**: E. New York, May, Wyandanch, Ap, May (Ds, *Sf*), in sphagnum bog, Nov 7 (Nic); Queens, *Dow*.  
 6277 **R. borealis** Csy. Sylvan Beach, Je, Tivoli, May (Not); **LI**: Canarsie, Rosedale, Ap (Not).  
 6278 **R. corporalis** Csy. Keene Val., Je (Not).  
 6298 **R. polita** Bndl. "NY" (Bndl).  
 6300 **R. spatulifer** Csy. Mt. Marcy, J1 (Not).  
 6301 **R. propinqua** Lec. Keene Val., May, Je, J1 (Not).

## RYBAXIS Saulcy

- 6309 **R. valida** Bndl. NY (Lg Cat).  
 6310 **R. conjuncta** Lec. Ramapo (*Sf*); **LI**: Yaphank, Ap, *Brb* (Lg).  
 6311 **R. clavata** Bndl. West Pt. (Robn); Suffern (*Sf*); **LI**, usually common: Huntington, Je (Schott); Wyandanch, Ap-May, *Sf* (Nic).  
 6312 **R. mystica** Csy. Keene Val., May, Je, J1, Lowville, Je (Not); **LI**: Rosedale, Ap (Not).

## DECARTHON Brendel

- 6314 **D. formiceti** Lec. **LI**: Brooklyn, *Dow*, probably in marshes on outskirts of city (Nic).  
 6317 **D. abnorme** Lec. West Pt. (Robn); Catskill (AM); Suffern (AM); **LI**: Brooklyn, Mar 31 (*Shoe*); Jamaica, May, *Pears* (Nic).  
 6319 **D. brendeli** Csy. **LI**: Yaphank, Mar (Brb).  
 6320 **D. longulum** Lec. Peekskill (Sherm); **SI** (L&D).  
 6321 **D. exsectum** Bndl. NY (Bndl).  
 6322 **D. strenuum** Bndl. **SI**, May (L&D).  
 — **D. exiguum** Not. Windsor, Je (Not).

## BYTHINOPSIS Raffray

- 6330 **B. tychoides** Bndl. Near NYC (Bndl); **LI**: Jamaica, Wyandanch, Mar, Ap, Oct, *Nic* (Sf), Ap 3, several specimens from sphagnum bog, *Shoe*, *Nic* (Nic).

## TYCHUS Leach

- 6333 **T. minor** Lec. Ramapo (Sf); **LI**: Wyandanch, Ap (Sf), Nov 7 (Nic).  
 6338 **T. spiculifer** Csy. **LI**: Rosedale, Ap (Not).

## PSELAPHUS Herbst

- 6350 **P. bellax** Csy. Mosholu, Sep (Sf); Suffern (Smith, N. J. List).  
 6351 **P. erichsoni** Lec. NY (Lec); **SI**, Feb (L&D).  
 6353 **P. fustifer** Csy. **SI** (L&D); **LI**: Brooklyn May 8, Bellport Je 8 under board in salt marsh (Nic).

## PILOPIUS Casey

- 6359 **P. lacustris** Csy. Windsor, Je (Not); **SI**, Feb 22, *Woodr* (L&D).  
 6362 **P. piceus** Lec. Buffalo (Lec, Z&R); West Pt. (Robn); Suffern (AM); **LI**: Jamaica, May 8, *Pears*, Mar, *Schott*, Wading R., May 30, in sweeping at border of pond, *Nic*, Huntington, May, *Schott*, Wyandanch, May-Je, *Ds* (Nic).  
 6364 **P. granicollis** Csy. Madison Co, Mar 20, with query (H); **LI**: Willetts Pt. (Csy).  
 6367 **P. consobrinus** Lec. Buffalo (Z&R); Westchester Co, May, *Dow* (Nic).

## CEDIUS LeConte

- 6375 **C. ziegleri** Lec. West Pt., Sep (Robn); **LI**: Brooklyn, *Dow* (Nic); north of Amagansett, Sep 21, in nest of *Formica exsectoides*, *Ds* (Nic).  
 6377 **C. spinosus** Lec. Cranberry L., Je 18 (Hatch); **LI**: Massapequa, Ap 26, *Eng* (Nic).

## TYRUS Aubé

- 6382 **T. humeralis** Aubé. Newport (NYS); Westfield, May (Not); Gloversville, Mar (NYS); Schoharie (Not); **LI**: Central Pk., Ap, *Eng*, Bellport, Aug 13, under pine bark, *Nic*, Massapequa, Ap, *Shoe*, Wyandanch, Ap, *Shoe* (Nic).



**TMESIPHORUS** LeConte

- 6379 **T. costalis** Lec. Bellport, Je 28, sparingly under boards along border of oak woods (Nic).

FAMILY **CLAVIGERIDAE****ADRANES** LeConte

- 6388 **A. coecus** Lec. **SI**, Mar 29, with ants, Je 9, under bark of stump (L&D); **LI**, very rare (Nic); Jamaica, Je 10, in ant's nest under bark, *Pears* (Nic); Farmingdale, Ap, *Eng* (Nic); Wyandanch, Nov 7, one specimen found in sifting leaves around pond (Nic).
- 6389 **A. lecontei** Bndl. **SI** (L&D).

FAMILY **PTILIIDAE**<sup>38</sup>*(Trichoptergidae)*SUBFAMILY **PTILIINAE****NANOSELLA** Motschulsky

- [6396 *N. fungi* Lec. Recorded from Ohio.]
- [6397 *N. atrocephala* Dury. Recorded from Ohio.]

**ACTIDIUM** Matthews

- 6399 **A. crotchianum** Matth. Westfield, May (Not).
- 6401 **A. granulorum** Csy. Westfield, May (Not).

**PTILIUM** Erichson

- [6410 *P. hornianum* Matth. Recorded from N. J.]
- [6411 *P. fungicola* Csy. Recorded from Pa.]
- [6412 *P. truncatum* Csy. Recorded from Pa.]
- [6415 *P. ulkei* Matth. Recorded from N. J. and D. C.]

**PTENIDIUM** Erichson

- 6417 **P. pusillum** Gyll. Cranberry L., Je 29-Jl 3, in box of decaying fungi and in sweeping (H).
- 6421 **P. foveicolle** Lec. Cranberry L., Je 29, in sweeping (H); Keene Val., May (Not); Windsor, Je (Not).
- 6422 **P. glabratum** Mots. "NY" (Mots).
- **P. simplicicolle** Not. Westfield, May (Not).

**PTILIOLA** Haldeman

- 6424 **P. collani** Mann. Keene Val., Je (Not).

<sup>38</sup> Definite records for this family are so few that the editors have included those species known from adjoining States, as a guide to the users of the list. These are italicized and placed within brackets.

## PTERYX Matthews

- 6426 **P. brunnea** Lec. Keene Val., J1 (Not).  
 6428 **P. duvali** Matth. Schoharie (Not).

## ACRATRICHIS Motschulsky

(Trichopteryx Kirby)

- 6432 ?**A. moerens** Matth. Voorheesville, Je, *Bish* (NYS); Little Pond, Orange Co, May, *Bish* (NYS).  
 6433 **A. aspera** Hald. Windsor, Je (Not).  
 [6435 **A. longipennis** Csy. Recorded from Pa.]  
 6436 **A. vicina** Matth. Westfield, May (Not).  
 6438 **A. sericans** Heer. (*ambigua* Matth.). Cranberry L., Je 25-J1 3, in box of decaying fungi, identity queried (H); Schoharie (Not). Also recorded from Can.  
 6455 **A. discolor** Hald. Schoharie (Not); Windsor, Je (Not).  
 [6456 **A. fungina** Csy. Recorded from Pa.]  
 6457 **A. dohrni** Matth. NY (Lg Cat.); E. Aurora (Dnd).  
 6458 **A. glabricollis** Matth. NY (Lg Cat.).  
 6459 **A. haldemani** Lec. Newport, May (NYS); (?) Cranberry L., Je 30-J1 2, in box of decaying fungi, and in sweeping, identity queried (H); Johnstown, Sep (NYS); Schoharie (Not); Delmar, Mar (NYS); Albany, Ap (NYS); **SI**, Ap, in sifting leaves (L&D). Also recorded from N. J. and Conn.  
 6465 **A. nanula** Mots. "NY" (Lg).

## SMICRUS Matthews

- 6468 **S. filicornis** Fairm. Windsor, Je (Not).

## PTINELLA Motschulsky

- 6470 **P. quercus** Lec. Keene Val., J1 (Not).

## NEPHANES Thomson

- [6472 **N. laeviusculus** Matth. Recorded from N. J.]  
 6473 **N. flaviventris** Mots. "NY" (Mots).

## LIMULODES Matthews

- 6475 **L. paradoxus** Matth. "NY" (Lg Cat.). Also recorded from N. J.

## FAMILY SCAPHIDIIDAE

## SCAPHIDIUM Olivier

- 6482 **S. quadriguttatum** Say. Newport (NYS); Cranberry L., J1 24 (H); Onondaga, Sep (NYS); Buffalo (Z&R); Mosholu, May (Ds); **SI**, Je 7, *Woodr* (L&D); **LI**: Orient, May (Ds).

- 6482b *S. quadriguttatum* var. *quadripustulatum* Say. "NY" (Lec).  
 6482c *S. quadriguttatum* var. *obliteratum* Lec. West Pt. (Robn).  
 6482d *S. quadriguttatum* var. *piceum* Melsh. Johnstown, Aug (NYS); Buffalo (Rein); Ithaca, Je 23, *Hamilton* (Vdyk); Schoharie (Not); L. George, Jl (NotAM); Albany, May (NYS); West Pt. (Robn); **SI**, Jan, Ap-Je, Nov (L&D); **LI**: Orient Pt., Je, *Lath* (NYS).

## SCAPHISOMA Leach

- 6489 *S. convexum* Say. Newport (NYS); Gloversville, Oct (NYS); **SI** (L&D).  
 6502 *S. rubens* Csy. Windsor, Je (Not); Catskills (Csy); **LI** (Csy).  
 6504 *S. suturalis* Lec. Westfield, May (Not).  
 6506 *S. terminatum* Melsh. "NY" (Csy).

## BAEOCERA Erichson

- 6513 *B. apicalis* Lec. Buffalo (Z&R).  
 6514 *B. punctipennis* Blatch. **SI**, Jl 23 (L&D).  
 6515 *B. concolor* Fab. Geneva, Aug (Cls); West Pt. (Robn); **SI**, Je 5, seashore (L&D).  
 6516 *B. congener* Csy. **LI** (Csy).  
 6517 *B. deflexa* Csy. Cranberry L., Jl 7 (H).

## TOXIDIUM LeConte

- 6528 *T. gammaroides* Lec. **SI**, Je, Sep (L&D).

## FAMILY HISTERIDAE

## SUBFAMILY HOLOLEPTINAE

## HOLOLEPTA Paykull

- 6530 *H. aequalis* Say (*fossularis* Say). Buffalo (Z&R); Ithaca, Sep (Dt); White Plains, Jl (Sq); **SI**, Je-Jl (L&D); **LI**: Orient Pt., May, *Lath* (NYS).  
 6531 *H. lucida* Lec. West Pt. (Robn); **LI** (Lec).

## SUBFAMILY HISTRINAE

## HISTER Linnaeus

- 6546 *H. arcuatus* Say. NYC (NYS); **SI**, Je, on seashore (L&D); **LI**: Coney I. (Schaupp); Rockaway Beach, Wading R., Je (Ds); Long Beach (Lg).  
 6554 *H. biplagiatus* Lec. Jamesport, Mar (NYS); **LI**: Rockaway (Lg).  
 6554a *H. biplagiatus* var. *instratus* Lec. Ithaca, Aug (Dt). Described from Kans and Ariz.  
 6569 *H. harrisii* Kby. Newport, Aug, Johnstown, May (NYS); Ithaca, May (CU); West Pt. (Robn).  
 6570 *H. stygicus* Lec. Newport, Je (NYS); Karner, Ap (NYS); **SI**, May (Sf, L&D).

- 6571 *H. interruptus* Beauv. Keene Val., Je (NYS); Cranberry L., Jl, on carrion (H); Fulton Co, May (HCU); Newport, Je (NYS); Rochester Jct., Je, *Leon* (HCU); Buffalo (Z&R); E. Aurora, Je (Dnd); Castile, *Brad* (Flet); Cattaraugus Co, Jl (Ds); Ithaca, May, Jl (H); Interlaken, Ap (NYS); Albany, May (NYS); Nassau, May (Yg); West Pt. (Robn); Ft. Montgomery, May, attacking dead caterpillar (Ds); **SI**, May (L&D).
- 6572 *H. obtusatus* Harr. Wilmington, Aug (Dt); Olcott, May-Je (Dt); Ithaca, McLean, May-Aug (Dt); West Pt. (Robn); **SI**, Feb, Je (L&D); **LI** (Lg).
- 6573 *H. immunis* Er. Cranberry L., Jl (H); Newport, May (NYS); Rochester Jct., Je, *Leon* (HCU); Penn Yan, Je, *Cy* (HCU); Renwick Swamp, Mar, *Bish* (NYS); Ithaca, Mar-Je (HCU); Karner, Je (Yg); Ashland (Frost); West Pt. (Robn); **SI**, May (L&D); **LI**: Orient Pt., Je, *Lath* (Yg).
- 6574 *H. memnonius* Say. Buffalo (Z&R); E. Aurora, Je (Dnd); Schoharie (Not), as *merdarius* Hoffm.; Nassau, Je (NYS); West Pt. (Robn); **LI**: Orient, *Lath* (NYS).
- 6586 *H. foedatus* Lec. Cranberry L., Je-Jl, on decaying fungi and on carrion (H); Newport, Je (Yg); Fourth L., Je (NYS); Johnstown, Sep (Yg); Buffalo (Z&R); E. Aurora, Jl-Aug (Dnd); Otto, Jl (HCU); Rock City, Je (HCU); Ithaca, May-Sep (H, Dt); Ashland (Frost); Peekskill (Ds).
- 6588 *H. hudsonicus* Csy. NY (Csy), type; Ringwood, May (Dt).
- 6590 *H. unicus* Csy. Catskills (Csy); **SI**, in toadstools (Sf, L&D).
- 6591 *H. marginicollis* Lec. Olcott, Mar, Oct (Dt); Rock City, Je (HCU); Ithaca, May (HCU); West Pt. (Robn).
- 6592 *H. cognatus* Lec. Newport, May (Yg); Johnstown, Sep, *Alex* (Yg); Ilion, Fourth L., Je (NYS); Buffalo (Z&R); Albany, May (NYS); Karner, Je (Yg); West Pt. (Robn).
- 6596 *H. abbreviatus* Fab. Cranberry L., Je-Jl, carrion (H); Pike, Jl (NYS); Potsdam (Houghton); Newport, May (NYS); Oswego, Aug, *Bks* (NYS); Oswego Falls, Jl (Bks); Syracuse, May, on cattle dung (H); Rochester Jct., Je, *Leon* (HCU); Olcott, Je (Dt); Buffalo (Z&R); Ithaca, Je-Aug (HCU); McLean, Aug (Dt); Windsor, Je (Not); Albany, Poughkeepsie, May (NYS); West Pt. (Robn); **SI**, Je-Aug (L&D); **LI**: Orient Pt., Je, *Lath* (Yg).
- 6601 *H. furtivus* Lec. Wilmington, Aug (Dt); Buffalo (Z&R); Ithaca, Aug 7 (HCU); West Pt. (Robn); **SI**, Aug (L&D).
- 6602 *H. incertus* Mars. Ringwood, May (Dt).
- 6606 *H. depurator* Say. Cranberry L., Jl (H); Gloversville, Johnstown, Sep, *Alex* (Yg); Buffalo (Z&R); E. Aurora, Sep (Dnd); Ithaca, Aug (HCU); West Pt. (Robn); Ludlow (Thompson); **SI** (L&D).
- 6613 *H. defectus* Lec. "NY" (Lec).
- 6623 *H. bimaculatus* L. Johnstown, Nov, *Alex* (Yg); Ithaca, Mar (HCU); Peekskill, May (HCU); West Pt. (Robn); Ludlow, Ap (Thompson); **LI**: Coney I. (Schaupp). Under cattle or horse dung.
- 6624 *H. sedecimstriatus* Say. Syracuse, May, cattle dung (H); Buffalo (Z&R); Pike (Yg); Ithaca, Ap, Jl, Nov (H); Ringwood, May (Dt); Peekskill (Ds); West Pt. (Robn); **LI**: Orient, *Lath* (NYS).

- 6627 *H. americanus* Payk. Mooers, Sep (Not); Newport, Je (Yg); Old Forge, Jl (NYS); Rochester Jct., Je, *Leon* (HCU); Buffalo (Z&R); Pike, May (Yg); Ithaca, Ap-May (HCU); Delmar, Karner, Rensselaer, May (NYS); West Pt. (Robn); **SI**, Ap-May, Aug (L&D).
- 6627a *H. americanus* var. *perplexus* Lec. Newport, Je (NYS); Buffalo (Z&R); Ithaca, Ap (Lg); West Pt. (Robn); **SI** (L&D).
- 6627b *H. americanus* var. *exaratus* Lec. West Pt. (Robn).
- 6630 *H. biabbreviatus* Csy. NY, type locality (Lg).

## TERETRIOSOMA Horn

- 6637 *T. americanum* Lec. Cranberry L., May-Jl, from *Pinus strobus*, *Betula lutea*, and *Picea rubens* (H); Newport, May-Je, Fourth L., Je (Yg); Rochester (M&W); Buffalo (Rein); Albany, May (Yg); Ludlow, West Farms (Lg); **SI** (Lg).

## TERETRIUS Erichson

- 6646 *T. latebricola* Lew. Central NY, *Wick* (Lew).

## PLATYSOMA Leach

- 6651 *P. carolinum* Payk. Olcott, Je-Sep (Dt); Buffalo (Z&R); E. Aurora, Grand I., May (Dnd); Ithaca, May-Je (H, Dt); West Pt. (Robn); **SI** (L&D).
- 6652 *P. aurelianum* Horn. Olcott, Aug, Ithaca, Je (Dt); **LI**: Rockaway, May (Lg).
- 6653 *P. depressum* Lec. Axton, Je (M&H); Cranberry L., Je-Jl, under bark, herbage (H); Peru, Je (HCU); Newport, May (NYS); Syracuse, Ap-May, under stones and bark (H); Olcott, May-Je (Dt); Buffalo (Z&R); E. Aurora, May, Je, Sep (Dnd); Westfield, May (Not); Castile, *Brad* (Flet); Pike, May (NYS); Ithaca, May-Aug, Spring L., Jl (HCU); Cortland Co, Je (Dnd); Windsor, Je (Not); Wileyville, Ap-Sep (Dt); Karner, in galleries of *Tomicus calligraphus* (Felt); Manor, Oct (NYS); Clinton Hgts., Je (NYS); Shandaken, Je, Cy (NYS); Poughkeepsie, Je (Yg); Ft. Montgomery, May (Ds); West Pt. (Robn); **SI**, Mar-Oct, under bark of sycamore and beech (L&D); **LI**: Central Pk., on dead pines (Eng); Roslyn, Jl, Orient, *Lath* (NYS).
- 6656 *P. aequum* Lec. Vic. NYC (AM).
- 6657 *P. basale* Lec. Cranberry L., Je-Jl (H).
- 6658 *P. parallelum* Say. Cranberry L., Je, from *Pinus strobus* (H); E. Aurora, May (Dnd); Albany, Nov (Yg); Delmar, May (NYS); West Pt. (Robn); **SI**, Mar (L&D); **LI**: Central Pk., Ap, on dead pines (Eng).
- 6659 *P. coarctatum* Lec. Cranberry L., Je-Jl, from *Pinus strobus*, *Picea rubens*, and *Abies balsamea* (H); Olcott, Aug (Dt); Buffalo (Z&R); Ithaca, Jl, Nov (Dt); West Pt. (Robn); **SI**, Mar (L&D).

## CYLISTIX Marseul

- 6661 *C. cylindrica* Payk. Round L., Jl (NYS); Manor, Oct (NYS); Ft. Montgomery, Jl (Lg).



- 6662 **C. attenuata** Lec. Buffalo (Z&R).  
 6663 **C. gracilis** Lec. Newport (Yg); Cranberry L., J1, from *Pinus strobus* and *Picea rubens* (H).  
 — **C. parvula** Csy. NY, type locality.

## PHELISTER Marseul

- 6666 **P. subrotundus** Say. Cranberry L., Je 30, on herbage (H); Syracuse, May, under stones and flying (H); on dead hickory (Blkm); Honeoye Falls, Mar, *Leon* (HCU); Olcott, Je-Sep (Dt); Buffalo (Z&R); Westfield, May (Not); Ithaca, May, Aug (HCU); West Pt. (Robn); Shokan (Lg); **SI** (L&D); **LI**: Coney I. (Lg).  
 6666a **P. subrotundus** var. **frosti** Carn. NY, type locality.  
 6673 **P. vernus** Say. West Pt. (Robn).  
 6674 **P. saunieri** Mars. West Pt. (Robn); **SI** (L&D); **LI**: Flatbush, May, *Zab* (AM).  
 6678 **P. hospes** Lew. Ulster Co (Lew).  
 6679 **P. conquisitus** Lew. "NY" (Lew).

## PSILOSCELIS Marseul

- 6684 **P. harrisi** Lec. Johnstown, May (NYS); West Pt. (Robn); Peekskill, Ap (Sherm); Katonah, under the name *planipes* (Sherm).  
 6685 **P. incurva** Csy. "NY" (Csy).

## EPIERUS Erichson

- 6696 **E. pulicarius** Er. Rochester (M&W).

## XESTIPYGE Marseul

- 6705 **X. geminatum** Lec. Olcott, May (Dt); **SI** (Sf, L&D).

## CARCINOPS Marseul

- 6714 **C. quatuordecimstriata** Steph. Rochester (M&W); Albany, May (Yg).

## PAROMALUS Erichson

- 6723 **P. aequalis** Say. Syracuse, Ap, under bark (H); Rochester, (M&W); Buffalo (Z&R); Ithaca, Ap, Sep (H,Dt); West Pt., Ap, *Robn* (Ds); **SI**, Ap (L&D).

## ISOLOMALUS Lewis

- 6724 **I. bistriatus** Er. Cranberry L., J1, from *Pinus strobus* (H); Ithaca, Mar-Ap (Dt); West Pt. (Robn); vic. NYC (AM, Palm Coll.).

## DENDROPHILUS Leach

- 6732 **D. punctulatus** Say. Lansingburg, Oct (Yg); Albany, May (Yg); West Pt. (Robn).

**CAEROSTERNUS** LeConte

- 6734 **C. americanus** Lec. Fourth L., Je (NYS).

**HETAERIUS** Erichson

- 6745 **H. brunneipennis** Rand. Ithaca, May (Dt); Catskills, Ap (Ang); Bronxville (Wheeler); **SI**, from ant's nest, Ap (L&D); **LI**: Half Way Hollow Hills, Jl (Ds).

**ONTHOPHILUS** Leach

- 6755 **O. alternatus** Say. Peekskill, Aug (Lg); Rockland Co, Sep (Lg); **SI** (L&D).

**PLEGADERUS** Erichson

- 6756 **P. sayi** Mars. Cranberry L., Jl (H).  
 6765 **P. transversus** Say. Newport, May (Yg); Cranberry L., Jl (H); Ithaca, Ap (Dt); Albany, Ap (NYS); Karner, in galleries of *Tomicus calligraphus* (Felt); **SI**, Ap, *Shoe* (L&D); **LI**: Central Park, Ap, on dead pine (Eng); Manorsville, Oct, on dead pine; Pinelawn, May (Ds).

**BACANIUS** LeConte

- 6772 **B. punctiformis** Lec. Newport, with query (Yg); Buffalo (Z&R); Lancaster, *MCV* (Frost); Ithaca, Ap (Dt).  
 6773 **B. tantillus** Lec. Westfield, May (Not).  
 6775 **B. misellus** Lec. "NY" (Lec).

**ACRITUS** LeConte

- 6781 **A. politus** Lec. Olcott, Ap (Dt); Buffalo (Rein); Westfield, May, Windsor, Je (Not); **SI**, Oct, in ant hill (L&D).  
 6790 **A. exiguus** Er. Syracuse, May, under bark (H); Rochester (M&W); Ithaca, Nov 14 (HCU); **SI**, Feb-Oct, under bark of beech (L&D).  
 6797 **A. strigosus** Lec. Olcott, Sep (Dt); Buffalo (Z&R); Ithaca, Ap (Dt).  
 6802 **A. sternalis** Csy. NY, type locality (Lg).

**SAPRINUS** Erichson

- 6819 **S. posthumus** Mars. Rochester (M&W); Olcott, May-Je (Dt); Ithaca, Sep (Dt); West Pt. (Robn).  
 6820 **S. obsoletus** Csy. NY, type locality (Lg).  
 6827 **S. lugens** Er. Cranberry L., Jl, on carrion (H); Rochester (M&W).  
 6828 **S. imperfectus** Melsh. Newport, Je (NYS).  
 6829 **S. pennsylvanicus** Payk. Rochester (M&W); **SI**, Je-Jl, often seen on seashore (L&D); **LI**: Shinnecock Hills (Ds); Orient, *Lath* (NYS).  
 6831 **S. oregonensis** Lec. var. *distinguendus* Mars. Axton, Je (M&H); Cranberry L., Jl, on carrion (H); West Pt. (Robn).

- 5836 **S. assimilis** Payk. Cranberry L., JI, on carrion (H); Newport, Oct (Yg); Johnstown, Je (NYS); Gloversville, Sep; Buffalo (Z&R); Pike, JI; Ithaca, May-Sep (H, Dt); McLean, Aug (Dt); Peekskill (Ds); West Pt. (Robn); **SI**, May-Aug (L&D); **LI**: Oyster Bay, Mar (NYS); Orient, Je, *Lath* (NYS).
- 6838 **S. conformis** Lec. Rochester (M&W); Buffalo (Z&R); Ithaca, May, Sep (H,Dt).
- 6875 **S. sphaeroides** Lec. **SI**, JI, *Woodr* (L&D).
- 6885 **S. fraternus** Say. Rochester (M&W); Buffalo (Z&R); NYC, May (NYS); **SI**, Je-JI, often on seashore (L&D); **LI**: E. New York, Rockaway, Je (Ds).
- 6896 **S. patruelis** Lec. Rochester (M&W); Newport (Yg); Pike (Yg); **SI**, Je-JI (L&D).
- 6901 **S. dimidiatipennis** Lec. Buffalo (Z&R); vic. NYC (AM-Palm); **SI**, Je-Aug (L&D).

**GNATHONCUS** Duval

- 6908 **G. communis** Mars. Newport (Yg); Olcott, May (Dt); Albany, type (Dt); **LI**: Orient Pt., May, *Lath* (Yg).
- 6909 **B. deletus** Lec. Peekskill, *Sherm* (Csy).

FAMILY **LYCIDAE****CALOPTERON** Guérin-Ménéville

- 6925 **C. terminale** Say. Keene Val., Aug (NYS); L. George, *Zab* (AM); Karner, Aug (NYS); West Pt. (Robn); White Plains, Aug (Sq); Van Cort. Pk., Aug, *Pears* (Nic); **SI**, JI-Aug (L&D); **LI**, Aug, *Eng* (Sf).
- 6926 **C. reticulatum** Fab. Adirondacks (Felt); Newport (NYS); Buffalo (Z&R); Naples (NYS); Canandaigua L., Aug, *Bish*, Canandaigua, JI (NYS); Penn Yan (FletCU); Ithaca, Je-Aug (CU); Hague, Aug, *Leon* (NYS); Karner, Aug (NYS); Albany, JI, Lansingburg, Poughkeepsie (NYS); West Pt. (Robn); White Plains, Aug (Sq); Van Cort. Pk., Aug (Nic); **SI**, Je, Aug (L&D); **LI**: Bellport, Je (Nic).

**CAENIELLA** Cockerell

- 6929 **C. dimidiata** Fab. Axton, Je (M&H); Newport, *Yg* (NYS); Cranberry L., JI (Drk); Gloversville, JI (NYS); Caroline, May, Ithaca, JI-Aug (FletCU); Catskills, Je, *Pears* (Nic); **SI**, Je, Aug (L&D).

**CELETES** Newman

- 6931 **C. basalis** Lec. Axton, Je (M&H); Big Moose, JI, Newport, Je, *Yg* (NYS); Chapel Pond, Je, *Bish* (NYS); Buffalo (Z&R); Ithaca, Je-JI (FletCU); Catskills, Je (Nic); West Pt. (Robn); **SI**, Je (L&D); **LI**: Bellport (Nic), JI, *Eng* (Sf).

**LOPHEROS** LeConte

- 6933 **L. fraternus** Rand. Newport, *Yg* (NYS); Buffalo (Z&R).

## EROS Newman

- 6935 *E. thoracicus* Rand. Saranac Inn, J1 (FletCU); Keene Val., J1 (NYS); **SI**, *Joutel* (L&D).
- 6939 *E. aurora* Hbst. Mt Whiteface, on trail, J1 (Ds); L. Clear, *Yg* (NYS); Newport (NYS); Wilmington, Je (NYS); Gloversville, May (NYS); Boston, under bark, scarce, Ap (Dnd); Westfield, May (Not); Rock City, Je (FletCU); Castile, *Brad* (Flet); Ithaca, Ap-Je (FletCU); McLean, May (Vdyk,Dt); Slide Mt., Je, *Leon* (NYS); Catskills, Je *Pears* (Nic); West Pt. (Robn); **SI**: Great Kills, Ap (L&D); **LI**: Jamaica (Nic).
- 6940 *E. sculptilis* Say. Old Forge, J1 (FletCU); Woodworth's L., Dug Mt., Newport, J1-Aug (NYS); Hamburg, Je, *MCV* (Frost); Buffalo (Z&R).
- 6941 *E. humeralis* Fab. Peru, Je (FletCU); Newport, Je. (NYS); Buffalo (Z&R); Albany, Je (NYS).
- 6942 *E. trilineatus* Melsh. Newport (NYS); Naples, J1, *Bish* (NYS); Catskills, Je, *Pears* (Nic); Callicoon (AM); **SI**, J1 (L&D); **LI**: Je, *Eng* (Sf); Flatbush, *Zab* (AM).
- 6943 *E. crenatus* Germ. Newport, Je (NYS); Dug Mt., Aug, *Yg* (NYS); Buffalo (Z&R); Broadalbin, Je, *Yg* (NYS); Big Ind. Val., *Pears* (Sf, Nic).

## PLATEROS Bourgeois

- 6944 *P. timidus* Lec. Ithaca, J1, *Dt* (Vdyk,Dt); **SI**, Je (L&D).
- 6945 *P. modestus* Say. Newport, Dug Mt., Elm L., Augur Flats, J1-Aug (NYS); Buffalo (Z&R); Coy Glen, Ithaca, Aug (Vdyk,Dt); McLean, J1 (FletCU); Nyack, Je (Ds); **SI**, Je-J1 (L&D).
- 6946 *P. canaliculatus* Say. Newport, Je (NYS); Buffalo (Z&R); Ithaca, J1 (Vdyk,Dt); Ithaca, J1 (Vdyk,Dt); Karner, J1 (NYS); **SI**, J1 (L&D); **LI**: Flatbush, J1, Yaphank, Je, *Eng* (Sf); Bellport, Je, *Pears* (Nic).
- 6949 *P. lictor* Newn. (*mollis* Lec.). Keene Val., Newport, J1 (NYS); E. Aurora, J1, rare (Dnd); Buffalo (Z&R); White Plains, Je-J1 (Sq); **LI**: Bellport, Je (Nic).
- 6950 *P. floralis* Melsh. Cattaraugus Co, J1 (Ds); McLean, J1 (FletCU); West Pt. (Robn); **SI** (L&D).

## CALOCHROMUS Guérin-Ménéville

- 6958 *C. perfacetus* Say. Plattsburg, J1 (Ds); Clinton Co, Je, *Mix&Everett* (FletCU); White Plains, Je-J1 (Sq); **LI**: Bellport, Je (Nic); Farmingdale, Je, *Morrow* (FletCU); Yaphank, Wading R., J1 (Sf).

## FAMILY LAMPYRIDAE

## CALYPTOCEPHALUS Gray

- 6967 *C. bifaria* Say. Newport, Je (NYS).

## LUCIDOTA Laporte

- 6971 *L. atra* Fab. Keene Val., L. Placid, Wells, Je (NYS); Potsdam, May, Ilion (NYS); Newport, Je (NYS); Cranberry L., Je-J1 (H); Long L. (AM); Chapel Pond, Je, *Bish* (NYS); Niagara Falls, May, larva;

Buffalo (Z&R); Pike, Je (NYS); Ithaca and vic., including Ringwood, Jl-Aug (Vdyk); Scotia, Je, Schenectady, Jl (NYS); Karner, Je, Kenwood, Jl; Schodack Landing, Je; L. Minnewaska (Ds); West Pt. (Robn); Poughkeepsie, Je, Mosholu, Aug (NYS); Ramapo, Je (Ds); Nyack (AM); **SI**, Je (L&D); Jamaica, Je (NYS); Brooklyn (Vdyk, Dt); Flatbush (AM).

6971a **L. atra** var. **tarda** Lec. Castile, *Brad* (Flet); "NY" (Horn Coll.).

6972 **L. punctata** Lec. Newport, Je, Long L., Aug, Ilion, May (NYS); Ithaca, Jl 8 (Vdyk, Dt); Windsor, Je (Not); Indian Fields, Jl (NYS).

6975 **L. corrusca** L. Mooers, Sep (Not); Elizabethtown, Keene Val., Ausable Forks, Aug (NYS); Adirondacks (Felt); Mt. Whiteface, 1500 ft., Aug 25 (Dt); Cranberry L., Je-Jl (H); White L., L. George, *Zab* (AM); E. Aurora, Je, on beech trunks (Dnd); Pike, Ap (NYS); Castile, May, *Brad* (Flet); Montour Falls, Je (H); Ithaca, McLean, Ap 8-Aug 25 (Dt); Windsor, Je, (Not); Trenton Falls, Je (NYS); Karner, Voorheesville, May (NYS); Ballston Spa, Je, Clinton Hgts., Mar (NYS); DeBruce (Ds); West Pt. (Robn); Poughkeepsie, Jl, Gilman, Ap, Mt. Kisco, Oct, Slide Mt., Je (NYS); **SI**, Mar-Oct (L&D); **LI**: Orient, *Lath* (NYS).

6975a **L. corrusca** var. **autumnalis** Melsh. Buffalo (Z&R); Nyack (Ds); **SI**, Ap-Jl (L&D); **LI**: Bellport, Aug 30 (Nic).

6975b **L. corrusca** var. **lacustris** Lec. Cranberry L., Je, Sep (Drk); Buffalo (Z&R).

6976 **L. luteicollis** Lec. "NY" (Horn Coll.). Described from Fla.

6977 **L. fenestralis** Melsh. Axton, Je (M&H); White L. (AM); Erie and Allegany Counties, Jl (Dnd); Ithaca, Je-Aug (Vdyk); **LI**: Flatbush (AM).

6978 **L. nigricans** Say. Johnstown, Jl (NYS); Ithaca, Jl-Aug (Vdyk); West Pt. (Robn).

6979 **L. decipiens** Harr. Keene Val., Jl (NYS); Cranberry L., Aug (Drk); White L., *Zab* (AM); Ithaca, Jl (Vdyk); Stony Pt., Je (Ds); New-castle and Van Cort. Pk. (AM); **SI**, Je-Jl (L&D).

#### PYRACTOMENA LeConte

6984 **P. angulata** Say. Keene Val., Jl (NYS); Cranberry L., Je 20 (H); Buffalo (Z&R); Pike, May (NYS); Castile, Je, *Brad* (Flet); Ilion, May, Canajoharie, Je (NYS); Allegany Pk., Jl (Dnd); Cattaraugus Co, Jl (Ds); Ithaca, Jl (Vdyk); Windsor, Je (Not); Karner, Jl Nassau, May (NYS); Catskills, Aug, *Pears* (Nic); Poughkeepsie, Je (NYS); West Pt. (Robn); Nyack, Je (Ds).

6985 **P. borealis** Rand. Keene Val., Jl (NYS); Axton, Je (M&H); Buffalo (Z&R); Catskills, Jl, *Pears* (Nic).

6987 **P. lucifer** Melsh. Newport, Pike (NYS); Sullivan Co (Ds).

#### PHOTINUS LeConte

6988 **P. consanguinius** Lec. Newport, Je (NYS); Ithaca, Ringwood, Je-Aug (Dt); Poughkeepsie, Je (NYS); Nyack, Je (Ds); **SI**, Je-Jl (L&D); **LI**: Bellport, Je (Nic); Flatbush, Forest Pk. (AM).

6990 **P. ardens** Lec. Newport, Je (NYS); Buffalo (Z&R); Ithaca, Ringwood, Jl (Dt).



- 6996 *P. pyralis* L. Oswego, Jl, *Bks* (NYS); Ithaca, Jl (Vdyk); **SI** (L&D); **LI**: Parkville, Flatbush (AM).
- 6997 *P. marginellus* Lec. Rochester, Jl, Geneva, Je (Cls); E. Aurora, Jl (Dnd); Ithaca, Jl (Dt); Van Cort. Pk. (AM); **LI**: Flatbush (AM).
- 6999 *P. scintillans* Say. Newport, Jl (NYS); W. Winfield, Je, *Leon* (NYS); Buffalo (Z&R); Avon, Je (NYS); Cattaraugus Co (Ds); Albany, Karner, Je-Jl, Watervliet Reservoir, Aug, *Leon*, Rensselaer, Middleburg, Jl (NYS); Normansville, Poughkeepsie, Jl (NYS); West Pt. (Robn); Stony Pt. (Ds); **SI**, Je-Aug, the common "firefly" of lawn and shrubbery (L&D).

## PHOTURIS LeConte

- 7013 *P. pennsylvanica* DeG. Keene Val., Jl, *Leon* (NYS); Newport, Cranberry Cr., Je (NYS); Conesus L., Aug (Cls); Erie Co, Jl, scarce (Dnd); Buffalo (Z&R); Middlesex, Aug (Cls); Ithaca, Jl (Vdyk); Windsor, Je (Not); Albany, Nassau, Thompson, Poughkeepsie, Je (NYS); West Pt. (Robn); Mosholu (AM); Cornwall, Oct (Lint); **SI**, Je-Jl, makes the brighter greenish light among the higher trees (L&D); **LI**: Orient, Ap, *Lath* (NYS); Shinnecock Hills (Ds); Flatbush (AM).

## FAMILY PHENGODIDAE

## PHENGODES Illiger

- 7023 *P. plumosa* Oliv. Ithaca, Je, *Babiy* (Kngt); West Pt. (Robn); **SI**, Je, male (L&D) (H. S. Barber believes this may be distinct from the *plumosa* of the South); **LI**: Flatbush, *Zab* (AM); Yaphank, May, *Eng* (Sf).

## TYTTHONYX LeConte

- 7034 *T. erythrocephala* Fab. Boston, Je, rare (Dnd); **LI**: Yaphank, Jl, *Eng* (Sf).

## OMETHES LeConte

- 7037 *O. marginatus* Lec. **SI**, Je (L&D).

## FAMILY CANTHARIDAE

## CHAULIOGNATHUS Hentz

- 7051 *C. pennsylvanicus* DeG. (*americanus* Forst.). SOLDIER BUG. Keene Val., Aug (NYS); Hope, Aug, *Bks* (NYS); Newport, Aug (NYS); Cranberry L., Jl (H); Elka Pk., Aug (Drk); Buffalo (Z&R); Batavia, Jl-Sep (Kngt); Pike, Aug (NYS); Castile, *Brad* (Flet); Ithaca, McLean, Jl-Sep (Vdyk); L. George (AM); Karner, Aug (NYS); Poughkeepsie, Je (NYS); DeBruce (Ds); West Pt. (Robn); Pine I. (AM); Mosholu, Je (NYS); White Plains, Aug-Sep (Sq); **SI**, Aug-Oct (L&D); **LI**: Mineola, Jl, *Wolf* (NYS).
- 7052 *C. marginatus* Fab. Schodack Landing, Je (NYS); Poughkeepsie, May-Je (NYS); Red Hook, Je, *Leon* (NYS); West Pt. (Robn); **SI**, Je-Jl (L&D); **LI**: Brooklyn (Vdyk, Dt); Bergen Beach (Ds); Flatbush (AM).

## PODABRUS Westwood

- 7055 *P. tricoloratus* Say. Keene Val., Jl (NYS); Buffalo (Z&R); Pike (NYS); Montour Falls, Je (H); Ithaca, Jl 6 (Vdyk); Trenton Falls, Je (NYS); Schenectady, Albany, Poughkeepsie, Je (NYS); Red Hook, Je, *Leon* (NYS); West Pt. (Robn); **SI**, Je-Jl (L&D); **LI**: Bellport, Mar 10 (Nic); Jamaica, Je, *Wolf* (NYS).
- 7056 *P. rugulosus* Lec. E. Aurora, May-Je (Dnd); Buffalo (Z&R); Schuyler Co, Je, with query (H); Ithaca, Jl 5 (Vdyk); Windsor, Je (Not); West Pt. (Robn); L. Waccabuc, Nyack, Rye, *Lutz* (AM); **SI**, Je-Jl (L&D); **LI**: Flatbush (AM).
- 7057 *P. frater* Lec. Big Moose, Je (NYS); Buffalo (Z&R); Ithaca, Je, Coy Glen, Aug (Vdyk).
- 7058 *P. basillaris* Say. Buffalo (Z&R); E. Aurora, Je-Jl (Dnd); Ithaca, Je (Vdyk); Windsor, Je (Not); Poughkeepsie, Je (Yg); Tivoli, Je (NYS); Dunwoodie (AM); West Pt. (Robn); Ramapo, Je (Ds); **SI**, May-Je (L&D).
- 7058a *P. basillaris* var. *discoideus* Lec. "NY" (Lec).
- 7061 *P. diadema* Fab. Axton, Je (M&H); Cranberry L., Je 14-27 (H); Howland I., Je (Vdyk); Buffalo (Z&R); Erie Co, Je-Jl, scarce (Dnd); Ithaca, Ringwood, Inlet Val., Je-Jl (Vdyk); Ft. Montgomery, May (Ds); West Pt. (Robn); White Plains, Je-Jl (Sq); **SI**, Je (L&D).
- 7062 *P. modestus* Say. Axton, Je (M&H); Newport, Je-Jl (NYS); Ilion, May (NYS); Cranberry L., Je 30 (H); White L. (AM); Buffalo (Z&R); Erie Co, Je-Jl, scarce (Dnd); Pike, Je (NYS); Castile, *Brad* (Flet); Ithaca, May-Jl (Vdyk); Montour Falls, Je (H); McLean, Inlet Val., Je-Jl (Vdyk); Windsor, Je (Not); Trenton Falls, Albany, Je (NYS); Riders Mills, May, *Bish* (NYS); Catskills, *Pears* (Nic); White Plains, Je-Jl (Sq); West Pt. (Robn); vic. NYC, *Palm* (AM); **SI**, May-Jl (L&D).
- 7062a *P. modestus* var. *flavicollis* Lec. Cranberry L., Jl (H); Valley Falls, Je (NYS); Nassau, May, Poughkeepsie, Je (NYS); West Pt. (Robn).
- 7066 *P. tomentosus* Say. Albany, Je-Aug, Nassau, Je (NYS); West Pt. (Robn).
- 7068 *P. brunnicollis* Fab. Ithaca, Jl (Dt); Inlet Val., Aug 12 (Vdyk); Poughkeepsie, Je (NYS).
- 7071 *P. limbellus* Lec. Poughkeepsie, Je (NYS).
- 7072 *P. punctatus* Lec. Westfield, May (Not); Windsor, Je (Not); Catskills, *Pears* (Nic).
- 7074 *P. puncticollis* Kby. Monadnock, Je (NYS).
- 7078 *P. piniphilus* Esch. L. Tear, Jl (NYS).
- 7080 *P. puberulus* Lec. Cranberry L., Je 9 (H).
- 7082 *P. simplex* Couper. Karner, Je (NYS).
- 7083 *P. laevicollis* Kby. Buffalo (Z&R).
- 7086 *P. pattoni* Lec. Newport, Je (NYS); Westfield, May (Not); Freeville, Je 5 (Vdyk). Described from Calif.

## CANTHARIS Linnaeus

(Telephorus Schaeffer)

- 7091 **C. dentiger** Lec. Elizabethtown, Je, Newport, May (NYS); Long L. (Ds); Thompson, May, *Leon* (NYS); Pike, Je (NYS); Castile, *Brad* (Flet); Valley Falls, May (NYS); Ithaca, May-Je (Vdyk); Enfield Glen, May (NYS); Windsor, Je (Not); Schenectady, Je, Albany, May, Karner, Je, Nassau, May, Kinderhook, Je, Shandaken, Je, Poughkeepsie, May (NYS); West Pt. (Robn); Bronx Pk., Suffern (AM); NYC (AM).
- 7092 **C. excavatus** Lec. Poughkeepsie, Je, Ionia (NYS); West Pt. (Robn); **SI** (L&D).
- 7093 **C. vilis** Lec. "NY" (Lec).
- 7095 **C. walshi** Lec. Ithaca, Jl (Vdyk).
- 7096 **C. fraxini** Say. Axton, Je (M&H); Mt. McIntyre, Jl, *Leon* (NYS); Speculator, Aug, Northville, L. Clear, Je (NYS); Wanakena, Aug (Drk); Buffalo (Z&R); Castile, May, *Brad* (Flet); Windsor, Je (Not); Catskills, Jl, *Pears* (Nic).
- 7097 **C. carolinus** Fab. Axton, Je (M&H); Keene Val., Jl, Newport, May (NYS); Cranberry L., Je-Jl (H); Long L. (Ds); Buffalo (Z&R); Erie Co, Je, common (Dnd); Pike, Je (NYS); Westfield, Je (NYS); Schuylerville, Je (NYS); Montour Falls, Je (H); Ithaca, Ringwood, McLean, Je-Jl (Vdyk); Windsor, Je (Not); Albany, Rensselaerville, May, Nassau, May, Schodack Landing, Je, Kinderhook, Je, Poughkeepsie, Je (NYS); West Pt. (Robn); Nyack, Ramapo (Ds); Van Cort. Pk. (AM); **SI** (L&D).
- **C. neglectus** Fall. Albany, Je (NYS).
- 7098 **C. lineola** Fab. E. Aurora, May-Je, scarce (Dnd); Karner, Je (NYS); **SI**, Je (L&D); **LI**: Bellport, Aug (Nic); Orient, *Lath* (NYS).
- 7100 **C. nigritulus** Lec. Chazy L., Rainbow L., Je (NYS); Cranberry L., Je 9-Jl 10 (H); Port Byron, Je (Vdyk); Howland I., Je (Vdyk); Ithaca, Freeville, Je, Ringwood, Jl 7 (Vdyk); Windsor, Je (Not); Suffern (AM); **SI**, Je (L&D).
- 7101 **C. rectus** Melsh. (*pusillus* Lec.). Newport, Je (NYS); Buffalo (Z&R); Ithaca, Ringwood, Inlet Val., Je-Jl, Coy Glen, Aug 2 (Vdyk); Albany, Je, Poughkeepsie, May (NYS); Catskills, Je 25 (Nic); Nyack, Je (Ds); **SI**, Je (L&D); **LI**: Bellport (Nic).
- 7105 **C. flavipes** Lec. Buffalo (Z&R); Castile, *Brad* (Flet); Windsor, Je (Not).
- 7106 **C. scitulus** Say (*imbecilis* Lec.). Keene Val., Aug (NYS); Wells, Jl, Newport, Je (NYS); White L., *Zab* (AM); Buffalo (Z&R); Aurora, *Zab* (AM); Ithaca, Ringwood, Butternut Cr., Jl (Vdyk); Coy Glen, Aug 2 (Vdyk); Karner, Jl (NYS); Catskills, *Pears* (Nic); Ft. Montgomery (Ds); West Pt. (Robn); Van Cort. Pk. (AM); **SI**, Je-Aug (L&D); **LI**: Flatbush (AM).
- 7107 **C. pusillus** Lec. **SI**, Jl (L&D).
- 7110 **C. longulus** Lec. Niagara (Lec).
- 7113 **C. rotundicollis** Say. Axton, Je (M&H); Essex Co, Aug, Elizabethtown, Jl, Mt. McIntyre, Jl, Newport, Je, Wells, Jl, Saranac Inn, Jl (NYS); Cranberry L., Je-Jl (H); Chapel Pond, Je, *Leon* (NYS); Buffalo (Z&R); Cincinnatus, Jl (Flet, Dnd); Ithaca, Jl (Vdyk); Windsor, Je (Not); Corinth, Albany, Karner, Je (NYS); West Pt. (Robn); **SI**, May-Jl (L&D).

- 7119 **C. tuberculatus** Lec. (*impressus* Lec.). Cranberry L., Je 11 (H); E. Aurora, Protection, May-Je, frequent (Dnd); Ithaca, Je (Vdyk); Albany, Karner, Nassau, Poughkeepsie, May (NYS); N. Chatham, Je (NYS); West Pt. (Robn); Ft. Montgomery, Ramapo (Ds); **SI**, May-Je (L&D); **LI**: Babylon (AM).
- 7119a **C. tuberculatus** var. **armiger** Couper. Buffalo (Z&R).
- 7121 **C. bilineatus** Say. Axton, Je (M&H); Newport, May, Wells, Je (NYS); Cranberry L., Je 16 (H); Herkimer Co, Feb, larvae (as *bilineatus*?) (Lint); Syracuse, May (H); Buffalo (Z&R); E. Aurora, May-Je, common, in beating (Dnd); Westfield, May (Not); Castile, May, Brad (Flet); Windsor, Je (Not); Ithaca, May-Je (Dt); Corinth, Albany, Poughkeepsie, May (NYS); Germantown, Je, *Leon* (NYS); West Pt. (Robn); **SI**, Ap-May (L&D); **LI**: Orient, *Lath* (NYS).
- 7127 **C. marginellus** Lec. Cranberry L., Je (H). Described from Ga. and Fla.

**POLEMIUS** LeConte

- 7137 **P. laticornis** Say. Rensselaer, Jl (NYS); **SI**, Je (L&D).
- 7139 **P. limbatus** Lec. **SI**, Je (L&D).

**SILIS** Latreille

- 7152 **S. percomis** Say. Newport, Ilion, May (NYS); Cranberry L., Je (H); Buffalo (Z&R); Catskills, *Pears* (Nic); West Pt. (Robn); **LI**: Orient Pt., May, *Lath* (NYS).
- 7157 **S. spatulata** Lec. "NY" (Lg Cat.).
- 7161 **S. bidentatus** Say. Newport, Ilion, May (NYS); Wells, Jl, Hope, Salem, Phoenicia, Aug (NYS); West Pt. (Robn); **SI**, May-Je (L&D).

**TRYPHERUS** LeConte

- 7169 **T. latipennis** Germ. Northampton, Je, Oswego, Jl (NYS); Ithaca, Aug 4 (Vdyk); West Pt. (Robn); **SI**, Je-Jl (L&D); **LI**: Jamaica, *Pears* (Nic).

**MALTHINUS** Latreille

- 7172 **M. occipitalis** Lec. West Pt. (Robn).

**MALTHODES** Kiesenwetter

- 7178 **M. concavus** Lec. "NY" (Lec); Ft. Montgomery (Ds).
- 7179 **M. fragilis** Lec. (*transversus* Lec.). Cranberry L., Je-Jl (H); Niagara (Lec); vic. NYC, *Palm* (AM).
- 7180 **M. exilis** Melsh. Windsor, Je (Not); "NY" (Melsh); **SI**: Buck's Hollow, Jl 12 (L&D).
- 7188 **M. fuliginosus** Lec. Windsor, Je (Not).
- 7193 **M. parvulus** Lec. "NY" (Lec); Cranberry L., *Hilly* (H).

## FAMILY MELYRIDAE

## SUBFAMILY MALACHIINAE

## COLLOPS Erichson

- 7196 **C. tricolor** Say. Catskills, Van Cort. Pk., Je-Jl, *Pears* (Nic); Ft. Montgomery, Jl (Ds); West Pt. (Robn); **LI**, Je, *Eng* (Sf).
- 7207 **C. nigriceps** Say. "NY" (Lec), as *eximius* Er.; Suffern (AM); **SI**, Je-Sep (L&D); **LI**: Orient Pt., Aug (NYS); Rockaway, Yaphank, Je, *Eng* (Sf); Islip, *Johnson* (Sf); Babylon (AM); Wading R., Jl-Aug (Ds).
- 7215 **C. vittatus** Say. Axton, Je (M&H); Potsdam (NYS); Saranac Inn, Newport, Jl (NYS); Cranberry L. (H); **SI**, Je (L&D); **LI**: Bellport, Je (Nic); Orient Pt., Sep, *Lath* (NYS); Shinnecock Hills, Jl (Ds).
- 7227 **C. quadrimaculatus** Fab. Newport (NYS); Essex Co, Jl (NYS); Gloversville, Jl (NYS); Syracuse, Jl (NYS); Olcott, Jl-Sep (Dt); Buffalo (Z&R); Batavia, Jl-Aug (Kngt); Aurora (AM); Geneva, Avon, Jl-Aug (Cls); Westfield, Jl (NYS); Ithaca, Jl 2, *Yuasa* (Vdyk); Ringwood, Jl (NYS); Schenectady, Jl, Scotia, Je (NYS); North Creek, Aug, Nassau, Jl (NYS); West Pt. (Robn); Ft. Montgomery, Jl (Ds); White Plains, Je, *Sq* (Frost); **SI**, Jl (L&D); **LI**: E. New York, Je, *Martin* (Sf); Rockaway Beach, Je, *Eng* (Sf); Yaphank, May-Sep, *Eng* (Sf); Long Beach, Orient (AM); Central Pk., Wading R., Half Way Hollow Hills (Ds).

## MALACHIUS Fabricius

- 7238 **M. aeneus** L. Potsdam, May, *Speculator*, Je (NYS); Canton, L. Pleasant, Je (Baby); L. Clear, Je, *Ogdensburg*, Jl (NYS); Northville, Je (NYS); Cranberry L., Je 18, on blossoms of trefoil and flying about camp (H); Syracuse, Je; Castile, May, *Brad* (Flet); Batavia, Je (Kngt); Geneva, Avon, Ap-May (Cls); Schuylerville, Je (NYS); Ithaca; Ringwood, Jl 3, *Yuasa* (Vdyk); Windsor, Je (Not); Waterford, May, Albany, Je, Nassau, May (NYS).

## ANTHOCOMUS Erichson

- 7276 **A. erichsoni** Lec. Buffalo (Z&R); **SI**: Old Place, Je (L&D).
- 7277 **A. flavilabris** Say. NYC and vic. (Ds).
- 7279 **A. apicalis** Say. West Pt., Jl, *Eng* (Sf).

## PSEUDOBAEUS Horn

- 7281 **P. pusillus** Say. Schoharie (Not).
- 7280 **P. bicolor** Lec. **LI**: Yaphank, May (Ds).
- 7282 **P. oblitus** Lec. Buffalo (Z&R); Windsor, Je (Not); Schoharie (Not); Peekskill, among lichens on rocks, late May (Sherm); West Pt. (Robn); Nyack, Je (Ds); **SI** (L&D); **LI**: Bellport, in sweeping, Aug (Nic); Yaphank, Je (Ds).

## ATTALUS Erichson

- 7290 **A. nigrellus** Lec. Mt. Seward, 4500 ft., Je 22 (M&H).
- 7294 **A. terminalis** Er. Newport, Je (NYS); Ithaca, Aug (Dt); Fort Montgomery (Ds); West Pt. (Robn); NYC, Ap (NYS); **LI**: Yaphank, Jl, *Eng* (Sf).



- 7300 **A. granularis** Er. Ithaca, Aug (Dt).  
 7303 **A. morulus** Lec. "NY" (Lec).  
 7304 **A. pallifrons** Mots. Schoharie (Not); **SI**: Watchogue, Je 28 (L&D).  
 7312 **A. rufiventris** Horn. Plattsburg (Ds); Buffalo (Z&R); Stony Pt. (Ds);  
**LI**: Wading R. (Ds).  
 7314 **A. otiosus** Say. West Pt. (Robn); **LI**: Yaphank, Je, *Eng* (Sf).  
 7322 **A. scincetus** Say. Poughkeepsie, May (NYS); Peekskill, in flowers of  
*Viburnum prunifolium* (Sherm); Ramapo (Ds); West Pt. (Robn);  
 vic. NYC (AM); **SI** (L&D); **LI**: Greenport, May (NYS); Yaphank, Je, *Eng* (Sf); Orient, *Lath* (NYS).

## SUBFAMILY MELYRINAE

## DOLICHOSOMA Stephens

- 7503 **D. foveicollis** Kby. Buffalo (Z&R).

FAMILY CLERIDAE <sup>39</sup>

## SUBFAMILY CLERINAE

## MONOPHYLLA Spinola

- 7516 **M. terminata** Say. Rochester Jct., Je, *Leon* (WolcCU); West Pt. (Robn);  
 Bronx Pk. (Sf); **SI**, May (Chitt), larvae predatory on borers in  
 various trees and shrubs.

## CYMATODERA Gray

- 7544 **C. bicolor** Say. Keene Val., Je (Not); Olcott, Je-Jl (Wolc, Dt); Buffalo  
 (Z&R, Wolc); Kinderhook, Aug, Peekskill (WolcCU); West Pt.  
 (Robn); Mosholu (Sf); **LI**: Cold Sp. Harb., Je, *Eng* (Sf).  
 7545 **C. inornata** Say. Olcott, Je-Jl (Wolc, Dt); Ilion, May (NYS); Buffalo  
 (Z&R, Wolc); Ramapo (Sf); Greenwood L. (Sf); West Pt. (Robn);  
**SI**, larvae predatory on secondary borers in dead trees of several kinds  
 (L&D); **LI** (Linell).  
 7566 **C. undulata** Say. "NY" (Sm, Wolc); West Pt. (Robn), as *balteata*, under  
 which name a species is recorded also in the N. J. List.

## PRIOCERA Kirby

- 7577 **P. castanea** Newn. Buffalo (Z&R).

## THANASIMUS Latreille

- 7584 **T. trifasciatus** Say. Keene Val., Je (Not); Buffalo (Z&R), as *nigripes*;  
 "NY" (Ashton Coll., Wolc-Purdue Univ.).  
 7585 **T. dubius** Fab. Mt. Seward, Je (M&H); Keene Val., Je-Jl (Not); Black  
 Br., Clinton Co, Je (WolcCU); Buffalo (Z&R); Ithaca, Je  
 (WolcCU); Peekskill, *Sherm* (Wolc); West Pt. (Robn); **LI**:  
 Jamaica, Aug, *Pears* (Nic); Wyandanch, Ap, *Schott* (Ds).

<sup>39</sup> A. B. Wolcott, besides supplying many records, has gone over the list for this family and is responsible for several changes in synonymy and spelling of names, which differ from those in Leng's catalog.

- 7587 *T. undulatus* Say. Black Br., Je (WolcCU); Buffalo (Z&R); **SI**, larvae in several kinds of trees infested by cerambycid borers (L&D).  
 7587a *T. undulatus* var. *nubilis* Klug. Buffalo (Z&R).

## PLACOPTERUS Wolcott

- 7589 *P. thoracicus* Oliv. Olcott, Je-Jl (Wolc, Dt); Buffalo (Z&R), also *C.F. Baker* (Wolc); E. Aurora, Je (Dnd); Montour Falls, Je (H); Schoharie (Not); Ithaca, May (WolcCU); Ft. Montgomery, Je, *Schott* (Ds); West Pt., Je (Sf); Mosholu (AM); **SI**, Je (L&D); **LI**: Huntington, Wading R., Je (Ds); Yaphank, May-Je, *Eng* (Sf).

## ENOCLERUS Gahan

- 7594 *E. nigrifrons* Say. E. Aurora (Dnd); Ithaca, Je (Wolc, Dt); West Pt., Je (Ds); **SI**, Je-Jl (L&D); **LI**: Bayshore, Jl (Ols); Huntington, Je, Wyandanch, Mar, Oakdale, Aug, *Schott* (Ds, Sf); Farmingdale, Je, *Morrow* (WolcCU); Pinelawn, Yaphank, Je, *Eng* (Sf).  
 7596 *E. nigripes* Say.<sup>40</sup> Buffalo, *Sherm* (Wolc); Ithaca, May-Jl (Wolc, Dt, CU); West Pt., Je (Sf); **LI**: Central Pk., Yaphank, Ap, Je, *Eng* (Sf).  
 7596b *E. nigripes* var. *rufiventris* Spin. Black Br., Je (WolcCU); E. Aurora (Dnd); Ithaca, May, Jl (Wolc, Dt, CU).  
 7597 *E. rosmarus* Say. Buffalo (Z&R); Ft. Montgomery, Je, *Schott* (Ds); West Pt. (Robn); Stony Pt., Mar (Ds); White Plains (Sq); Bronx Pk. (Sf); **SI**, Je, Aug (L&D); **LI**: Maspeth, Je (Ols); Flatbush (AM); Massapequa, Jl, Wyandanch, Je (Ds); Flushing, Je, *Eng* (Sf).  
 7605 *E. ichneumoneus* Fab. Cranberry L., Jl (Drk); NYC (Wolc); **LI**: Bellport, Wading R. (Nic).  
 7610 *E. quadrisignatus* Say. **LI**: Central Pk., Ap, Yaphank, Sep, *Eng* (Sf).  
 7612 *E. lunatus* Klug. **LI**: Rockaway Beach (Shoe).  
 7614 *E. analis* Lec. Pike, Je, Albany, Je, Poughkeepsie, May (NYS).  
 7616 *E. laetus* var. *coccineus* Schklg. "NY" (Fitch), but both Wolcott and Leng regard the record as doubtful since the species is more western.  
 — *E. liljebladi* Wolc. **LI**: Bellport, *Nic* (Sf).

## TRICHODES Herbst

- 7629 *T. nutalli* Kby. Wilmington, Jl (Ds); Honeoye Falls, Je, *Leon* (WolcCU); New Russia, Aug, *Bdy* (Wolc); Potsdam (Wolc-Ill. Lab. Nat. Hist.); Otto, Jl (CU); Buffalo (Z&R); E. Aurora (Dnd); Batavia, Jl-Aug (Kngt); Ithaca, Jl-Aug (Wolc, Dt, CU); W. Hebron, Aug (Ds); **SI**, Jl, in fresh meadows (L&D).

<sup>40</sup> *E. quadriguttatus* Oliv., 7595. Newport, Je (NYS); Cranberry L., Je-Jl, on pine and spruce (II); Buffalo (Frison); Karner, Jl (NYS); West Pt., Je (Sf); **SI**, Mar 29, on cedar (L&D); **LI**: Central Pk., Ap (Eng); Bellport, Je (Nic); Wyandanch, Mar, Oakdale, Aug, *Schott* (Ds). A. B. Wolcott writes: "This is not a North American species and was not intended to be included in Leng's catalog. The records should be transferred to *E. nigripes* Say. See Trans. Am. Ent. Soc., vol. 48, pp. 70-71, 1922."

- 7630 **T. apivorus** Germ. (*nutalli* Say). Ithaca (Chitt); Saratoga (Lec); Albany, Karner, Je (NYS).  
 7630a **T. apivorus** var. **borealis** Wolc. & Chap. "NY", as var. *interruptus* (Wolc); Binghamton, Aug, *Franck* (Sf); Ithaca, Aug (Wolc, Dt).

## HYDROCERA Newman

- 7637 **H. unifasciata** Say. **LI**: Loyd's Neck, Jl, *Brb* (Sf).  
 7642 **H. humeralis** Say. Buffalo (Z&R); West Pt., Ft. Montgomery, Je, *Schott* (Ds); Peekskill, *Sherm* (Wolc); **SI**, May (L&D); **LI**: Rockaway Beach, Je-Jl (Chitt), on *Myrica cerifera*; Smithtown, Je, Bayshore, Je, Maspeth, Huntington, May, Massapequa, Jl, Yaphank, Orient, Jl (Ds); Yaphank, Amagansett, Wyandanch, May-Je, *Eng* (Sf).  
 7642a **H. humeralis** var. **difficilis** Lec. Axton, Je (M&H); Peru, Je, Aug (WolcCU); Buffalo (Z&R), as *cyanescens* Lec.; Ithaca, Je, Aug (Wolc, Dt, CU); Peekskill, *Sherm* (Wolc); West Pt. (Robn); Ft. Montgomery, Je-Jl, *Schott* (Ds); **LI**: Huntington, Sep, Wyandanch, Jl, *Schott* (Ds); Yaphank, Pinelawn, Je, *Eng* (Sf).  
 7648 **H. lecontei** Wolc. Bear Mt., Jl, as *subaenea* Spin., *Nic* (Sf).  
 7649 **H. maritima** Wolc. **LI**: Amagansett, Aug (Sf).  
 — **H. commixta** Chapin. "NY" *Chapin* (Wolc). Type.  
 7675 **H. verticalis** Say. Mt. Whiteface, 2000-4000 ft., Aug 22-24 (WolcCU); Plattsburg, Jl (Ds); Olcott, Je-Jl (Wolc, Dt); Buffalo (Z&R, Wolc); Castile, *Brad* (Flet); Ithaca, Feb, *Babiy*, Je, *Wolc* (CU); Schoharie (Not); Ft. Montgomery, Je-Jl, *Schott* (Ds); Peekskill, *Sherm* (Wolc); Nyack, Je (Ds); NYC (Wolc); Bronx Pk., Van Cort. Pk. (Sf); **SI**, Je-Jl, predatory on small cerambycid larvae in grape and Celastrus (L&D); **LI**: Parkville, *Sherm* (Wolc); Bellport, Je (Nic); Pinelawn, Yaphank (Sf); Riverhead, Sep (WolcCU).  
 7677 **H. pallipennis** Say. White L. (AM); Buffalo (Z&R, Wolc); Ithaca, Aug (Wolc, Dt); Hudson Falls, Jl, *Sherm* (Wolc); L. George (AM); West Pt. (Robn); Ft. Montgomery, Ramapo, Jl (Ds); Bronx Pk., Van Cort. Pk. (Sf); **SI**, Jl-Aug (L&D); **LI**: Greenport, Bellmore, Yaphank (Sf); Flatbush, Quogue (AM).

## ISOHYDROCERA Chapin

- 7688 **I. curtipennis** Newm. Cranberry L., Je 29 (H); Buffalo (Z&R); Montour Falls, Je (H); Ithaca, Jl (Wolc, Dt, CU); Windsor, Je (Not); Peekskill (Fall); Ramapo (Sf); **LI**: Rockaway Beach, Je, *Eng* (Sf). Also as *longicollis* Ziegl. from Batavia, Jl (Kngt); Schoharie (Not); West Pt. (Robn).  
 7689 **I. tabida** Lec. Rochester Jct., Je, *Leon* (WolcCU); Spring Lake, Jl (WolcCU); Ithaca, May-Je (Wolc, Dt, CU); Windsor, Je, (Not); Greenwood L. (Sf); **SI**, Je, predatory on mordellid larvae in stems of annual plants (L&D); **LI**: Rockaway, Je (Sf).

## ZENODOSUS Wolcott

- 7694 **Z. sanguineus** Say. St. Lawrence Co, Jl (Drk); Keene Val., May, Aug (Not); Cranberry L., Je-Jl, also in burrows of bark beetles (Blkm, H); Syracuse, Ap, under bark (H); Geneva, Feb-Je (Cls);

Buffalo (Ashton Coll., also Bolter Coll., Univ. Ill.) (Z&R), as *Enoclerus*; E. Aurora (Dnd); Batavia, Sep (Kngt); Bronx Pk. (Sf); **LI**: Flushing (Ds).

## SUBFAMILY CORYNETINAE

## PHYLLOBAENUS Spinola

- 7696 **P. dislocatus** Say. Keene Val., Aug (Not); Cranberry L., Jl, in burrows of bark beetles (H); Syracuse, Je (Drk); Olcott, Je-Jl (Wolc,Dt); Buffalo (SayANSP); Ithaca, Ap-May (WolcCU); West Pt. (Sf); Ft. Montgomery, Je, *Schott* (Ds); Peekskill (AM); Mosholu (Sf); Bronx Pk. (Ds); **SI**, Je, larvae predatory on small borers in deciduous trees (L&D); **LI**: Wyandanch, Je, *Schott* (Ds); Bellport, Aug (Nic).

## NEICHNEA Wolcott and Chapin

- 7698 **N. laticornis** Say. Buffalo (Z&R); Greenwood L. (Dietz, Sf); West Pt. (Robn); **LI**: Bellport, Aug (Nic).

## CHARIESSA Party

- 7708 **C. pilosa** Forst. Honeoye Falls, Je, *Leon* (WolcCU); Castile, *Brad* (Flet); Syracuse (B&S); Buffalo (Z&R); Ithaca, Je 30 (WolcCU); West Pt., Je (Ds); Peekskill, Jl, *Sherm* (Wolc); **SI**: Clove Val., Je-27, from hickory (L&D); **LI**: Bellport, Aug (Nic).
- 7708a **C. pilosa** var. *marginata* Say. Buffalo (Z&R), as *onusta*; Peekskill, Je, *Sherm* (Wolc); West Pt., Je (Ds); **LI**: Wyandanch, Je, *Schott* (Ds).

## CORINTHISCUS Fairmaire and Germain

- 7711 **C. leucophaeum** Klug. Rochester (Moore); Buffalo (Z&R), as *Cregya vetusta*; Bronx Pk. (Sf).

## CREGYA LeConte

- 7716 **C. oculatus** Say. Buffalo (Z&R); Peekskill, *Sherm* (Wolc); Mosholu (Sf); NYC (Wolc, Wickham); **SI**, Mar, Je, Jl, on cedar and deciduous trees; larvae predatory on borers (L&D); **LI**: Montauk Beach, Wyandanch, Half Way Hollow Hills, Je (Ds).

## ORTHOPLEURA Spinola

- 7719 **O. damicornis** Fab. Buffalo (Z&R); Peekskill, *Sherm* (Wolc); **LI**: Jamaica, *Pears* (Nic).

## NECROBIA Olivier

- 7727 **N. rufipes** DeG. Perry, Dec (WolcCU); Buffalo (Z&R); Ithaca, Aug-Sep (WolcCU); **SI**, Jl-Sep, often found on beach, on dead animals (L&D); **LI**: Rockaway Beach, May, *Schott* (Ds); Brooklyn, Long Beach (Sf); Coney I. (AM).

- 7728 **N. ruficollis** Fab. Buffalo (Z&R); Oswego, Sep, *Sheldon* (Wolc); Ithaca, Aug (WolcCU); Peekskill, *Sherm* (Wolc); NYC (AM); **SI**, Aug-Sep, habitat same as for *rufipes* (L&D); **LI**: Rockaway Beach, Sep, *Schott* (Ds); Coney I. (AM).
- 7729 **N. violacea** L. Axton, Je (M&H); Syracuse, Ap (H); Olcott, May (Wolc,Dt); Potsdam (Wolc-Ill. Lab. Nat. Hist.); E. Aurora (Dnd); Montour Falls, Ap (H); Ithaca, Ap, May, Aug (Wolc, Dt, CU); West Pt. (Robn); **SI**, Aug (L&D); **LI**: Brooklyn, Yaphank, May, *Eng* (Sf).

## FAMILY LYMEXYLIDAE

## HYLECOETUS Latreille

- 7739 **H. lugubris** Say (*americanus* Harr.). Keene Val., May-Je (Not); Newport, May-Je (NYS); Trenton Falls, May 20, larva boring in elm (Hagen); Albany, May (NYS); vic. NYC (AM).

## MELITTOMMA Murray

- 7740 **M. sericeum** Harr. NY", larva in oak, *Horn* (Fitch); **LI**: Rockaway Beach, Je, Long Beach, Jl (Sf).

## FAMILY CUPESIDAE

## CUPES Fabricius

- 7743 **C. capitatus** Fab. Newport (NYS); Buffalo (Z&R); Albany, Jl (NYS); vic. NYC (AM); North Branch (Schaupp).
- 7744 **C. concolor** Westw. Newport (NYS); Syracuse, in dying hickory (B&S); Buffalo (Z&R); Ithaca, Jl-Aug (Vdyk); North Branch (Schaupp); **LI**: Westbury, Jl (bred by Champlain-H); Greenport, Aug, at light (Ds).
- 7744a **C. concolor** var. *oculatus* Csy. "NY" (Csy).

## FAMILY CEPHALOIDAE

## CEPHALON Newman

- 7747 **C. lepturides** Newn. (*lepturoides* Hald.). Mt. Seward, Axton, Je (M&H); Newport (Yg); Chapel Pond, Keene, Je, *Leon*, *Bish* (Yg); Peru (FletCU); Olcott, Je-Jl (Dt); E. Aurora, Je (Flet,Dnd); Buffalo (Z&R); Rock City, Je (FletCU); Ithaca, May-Jl (Dt); Windsor, Je (Not); Trenton Falls (Newn); Schoharie (Not); Ft. Edward, Je (FletCU); Ramapo, Nyack, Je (Joutel); **SI**: Green Ridge, Je, common in flowers of the tulip tree (*Liriodendron*) (L&D).

## TYPITIUM Casey

- 7748 **T. unguare** Lec. Whiteface Mt., Jl (Lg); Essex Co, Jl (FletCU); E. Aurora, Je (Flet,Dnd).



## FAMILY OEDEMERIDAE

## SUBFAMILY OEDEMERINAE

## NACERDA Stephens

- 7763 **N. melanura** L. Oswego, Jl (NYS); Lockport, Mar (FletCU); Buffalo, Aug (NYS); Castile, *Brad* (Flet); Ilion, May (NYS); Ithaca, Jl (Dt); Albany (Lint); West Pt. (Robn); NYC (FletCU); **SI**, Je-Jl (L&D); **LI**: Bergen Beach, Greenport (Ds); Flatbush, Long Beach (AM); Rockaway Beach, Je (Sf); Barren I. (AM).

## DITYLUS Fischer

- 7765 **D. coeruleus** Rand. Buffalo (Z&R).

## COPIDITA LeConte

- 7769 **C. thoracica** Fab. Greenwood L. (Sf); West Pt. (Robn); **LI**: Wyandanch, a variety (Sf).

## ALLOXACIS Horn

- 7776 **A. dorsalis** Melsh. West Pt. (Robn); vic. NYC (AM); **SI**, Jl-Aug, once rather abundant, under logs (L&D); **LI**: Fire I., Rockaway Beach, Aug (Sf).

## ASCLERA Stephens

- 7799 **A. puncticollis** Say. Mt. Seward, 4500 ft., Je (M&W); Whiteface Mt., Jl (Sf); Buffalo (Z&R); Trenton Falls (Newn); **SI**, May 8, 1881 (L&D).
- 7800 **A. ruficollis** Say. Cranberry L., Je (H); Buffalo (Z&R); Ithaca, Ap-May, McLean Bogs, May (FletCU); Taughannock, Gorge, Ap 21, *Dt* (Snn); Trenton Falls (Newn); Albany, Nassau, E. Schodack, Ap-May (NYS); Ramapo, West Pt. (Robn); NYS (AM); **SI**, Ap-May (L&D); **LI**: Yaphank, May (Sf).

FAMILY MORDELLIDAE <sup>41</sup>

## TOMOXIA Costa

- 7804 **T. bidentata** Say. Peru, Je (CU); Rochester, Honeoye Falls, *Leon* (CU); Castile, *Brad* (Flet); Batavia, Je (Kngt); Ithaca, Jl (CU); Albany, Je (NYS); West Pt. (Robn); Nyack, *Ds* (Nic); Palisades (Nic); Van Cort. Pk. (Nic); **SI**, Jl 31, on dead oak log (L&D); **LI**: Maspeeth, Je, *Shoe* (Nic). On decaying hickory (Felt).
- 7805 **T. lineella** Lec. Peru, Je 21 (CU); Rochester Jct., Jl 7, *Leon* (CU); Buffalo (Lec); Ithaca, Jl (CU); Poughkeepsie, Je (NYS); Catskills (Nic); **SI**, Je (L&D). On decaying hickory (Felt).
- 7806 **T. inclusa** Lec. Rochester Jct., Jl, *Leon* (CU); Buffalo (Z&R); Catskills, Jl (Nic).

<sup>41</sup> Emil Liljeblad has seen the manuscript of the list for this family, and has made some changes in synonymy as well as determined all of the material from New York in the Cornell collection.

## MORDELLA Linnaeus

- 7808 *M. quadripunctata* Say. Cranberry L., J1 10 (H).
- 7809 *M. borealis* Lec. Big Moose, J1 (NYS); Newport (NYS); Cranberry L., Aug (H); Albany, Nassau (NYS); Catskills, *Pears* (Nic). On dying spruce and in decaying maple stumps (Felt).
- 7810 *M. melaena* Germ. Chazy L., Saranac Inn, L. Placid, Severance, Hope, Wells, L. Pleasant, Gloversville, Northampton, Pike, Je-Aug (NYS); Castile, *Brad* (Flet); Cranberry L., J1 (H); Buffalo (Z&R); Wales, J1 (Dnd); Canandaigua, J1 (NYS); Ithaca, J1-Aug (CU); McLean, J1 (Dt); Saratoga Sps., J1 (NYS); Karner, J1 (NYS); Catskills (Nic); Pine I. (Ds); Van Cort. Pk., very local and not common (Nic); **SI**, on wild rose (L&D).
- 7811 *M. atrata* Melsh. (Liljeblad writes that *scutellaris* Fab. is a South American species.) Peru, Je (CU); Black Br., Je (CU); Axton, Je (M&H); Newport, Severance, Hope, Je-Aug (NYS); Saranac, Aug (CU); Long L. (Ds); Cranberry L., Wanakena (H); Erie Co, Je (Dnd); Ithaca, Enfield, J1 (CU); McLean Bogs, J1 (Dt); Kenwood, J1 (NYS); Karner, J1 (NYS); Poughkeepsie, Je-J1 (NYS); West Pt. (Ds); **SI**, Je, Sep (L&D); **LI**: Orient, *Lath* (NYS).
- 7811a *M. atrata* var. *lecontei* Csiki. Ithaca, Je, *Dt* (CU); Middletown, Je (CU).
- 7814 *M. octopunctata* Fab. Rochester Jct., Aug, *Leon* (CU); E. Aurora, J1 (Dnd); Geneva, Je (Cls); Ithaca, J1 (CU); Albany, Je (NYS); West Pt., Ft. Montgomery (Ds); **SI**, Je-J1, bred from hickory (L&D); **LI**: Mineola, Je, *Wolf* (NYS); Farmingdale, Je (Lilj). Larvae in oak stumps (Felt).
- 7817 *M. marginata* Melsh. Keene Val., L. Placid, Saranac Inn, Wells, Hope, Je-Aug (NYS); Wilmington (Dt); Wanakena, Aug (Drk); Cranberry L., J1 (H); Rochester Jct., Je, *Leon* (CU); Olcott (CU); Buffalo (Z&R); E. Aurora, Je-J1 (Dnd); Pike, Sep, *Knull* (Lilj); Castile, *Brad* (Flet); Otto, J1 (CU); Crosby, Je (CU); Montour Falls, Je (H); Ithaca, J1-Aug (CU); McLean (Dt); Danby, J1 (Dt); Spring Lake, J1 (CU); Schoharie (Not); L. George (AM); Catskills (Sm); Poughkeepsie, Je-J1 (NYS); Rhinebeck, J1, *Cy* (CU); West Pt. (Robn); **SI**, Je-J1, on hickory (L&D); **LI**: Jamaica, Je (NYS); Flatbush, Long Beach (AM); Farmingdale, Je (CU).
- *M. marginata* var. *lineata* Melsh. Cranberry L., J1 10 (H).
- 7818 *M. lunulata* Hellm. Crosby Landing, L. Keuka, Je, *Cy* (CU); Albany, Je (NYS).
- 7819 *M. serval* Say. Newport, Je (NYS); Cranberry L., J1 (Drk); Buffalo (SayANSP); Ithaca, J1 15 (CU); Albany, Je (NYS); Catskills, May (Nic); **SI**, Aug (L&D); **LI** (Sm).
- 7824 *M. triloba* Say. Ithaca, Taughannock Gorge, J1 (CU); Spring Lake, J1 (CU).
- 7825 *M. undulata* Melsh. Buffalo (Z&R).
- 7827 *M. discoidea* Melsh. **LI** (Sm).

## MORDELLISTENA Costa

- 7834 *M. confusa* Blatch. Ringwood, May 27, McLean Bogs, May 30 (Dt).
- 7836 *M. arida* Lec. Spring Lake, J1 (CU); **LI**: Bellport, J1-Aug, in beating dead pines, *Shoe* (Nic).
- 7837 *M. lutea* Melsh. Buffalo (Z&R).

- 7838 *M. trifasciata* Say (*lepidula* Lec., according to Lilj). Buffalo (Z&R); Danby, J1 (Dt); Ithaca, J1 (CU); Catskills (Nic); Van Cort. Pk. (Nic); **SI**, Je-J1 (L&D); **LI**: Bellport, J1 (Nic).
- 7841 *M. limbalis* Melsh. Ithaca, *J.W.Green* (Lilj); **SI** (L&D).
- 7842 *M. elegantula* Sm. **LI** (Sm).
- 7844 *M. dimidiata* Hellm. Olcott, J1 4 (Dt).
- 7845 *M. biplagiata* Hellm. E. Aurora, May (Dnd); Castile, Je, *Brad* (Flet).
- 7846 *M. intermixta* Hellm. Adirondacks (Sm).
- 7848 *M. vapida* Lec. "Vic. NYC" (Sm); **SI** (Nic).
- 7850 *M. bipustulata* Hellm. Olcott, J1 (Dt).
- 7851 *M. atriceps* Sm. Newport (NYS); "NY" (Sm).
- 7853 *M. picipennis* Sm. NY (Sm).
- 7854 *M. pallipes* Sm. Ithaca (Sm).
- 7855 *M. fulvicollis* Melsh. Buffalo (Z&R).
- 7856 *M. ornata* Melsh. **SI**, Je (L&D).
- 7858 *M. scapularis* Say (*biplagiata* Hellm., according to Lilj). Peru (CU); Keene Val., J1, Newport, Je (NYS); Cranberry L., Je (H); Olcott, Je-J1 (Dt); Buffalo (Z&R); Geneva, Je (Cls); Port Byron, Je (Dt); Ithaca, May-Je (CU); Schoharie (Not); Catskills (Nic); Poughkeepsie, May-Je (NYS); Middletown (CU); Ramapo, Je, *Ds* (Nic); Peekskill, Je (CU); West Pt. (Robn); Highlands of the Hudson (Nic); Van Cort. Pk. (Nic); **SI**, May-Je (L&D).
- 7859 *M. comata* Lec. Newport, Je (NYS); Hope, Aug, *Bks* (NYS); Ilion, May (NYS); Olcott, J1 (Dt); E. Aurora, Je, Protection, J1 (Dnd); L. George (AM); Nassau, May (NYS); Kinderhook, Je (NYS); **SI**, Je-Sep (L&D); **LI**: Bellport, Je-J1 (Nic).
- 7859a *M. comata* var. *cervicalis* Lec. Axton, Je (M&H); Cranberry L., J1 (H); Buffalo (Z&R); Ithaca, May-J1, Ringwood, Je (CU); Freeville, J1 (CU); Rhinebeck, J1, *Cy* (Lilj); Middletown, J1, *Spooner* (CU).
- 7860 *M. aspersa* Melsh. Axton, Je (M&H); Newport, J1 (NYS); Cranberry L., J1 (H); Olcott, Je-J1 (Dt); Ithaca, May-Aug, McLean, J1 (CU); Windsor, Je (Not); Caroline to Harford, Je (CU); Cortland, J1 (NYS); Schoharie (Not); Nassau, Karner, Menands, J1 (NYS); Rhinebeck, J1, *Cy* (Lilj); Mosholu, Je (NYS); **LI**: Forest Pk., Je (NYS).
- 7861 *M. indistincta* Sm. "Adirondacks" (Sm); Fall Cr., Ithaca, Aug 2 (Dt).
- 7862 *M. tosta* Lec. E. Aurora, J1 (Flet,Dnd); Ithaca, J1 (CU).
- 7869 *M. picilabris* Hellm. **LI**: Bellport, Je 24, evidently one of the few maritime species, (Nic).
- 7870 *M. infima* Lec. Mt. Whiteface, 2000-4000 ft., Aug 22-24 (CU); Ithaca, Aug 3, Ringwood, Je 26 (CU).
- 7871 *M. andreae* Lec. Poughkeepsie, Je (NYS).
- 7872 *M. grammica* Lec. Wells, J1 (NYS); **SI**, in blossom of wild parsnip, *Ds* (Nic, L&D); **LI**: Jamaica, Floral Pk., Je (Nic).
- 7872a *M. grammica* var. *varians* Lec. Newport, Je (NYS); Ithaca, J1 (NYS); Karner, J1 (NYS); Ramapo Mts. (AM); **SI**, on flowers of wild parsnip, *Ds* (Nic, L&D).
- 7874 *M. ancilla* Lec. "NY" (Lec).
- 7877 *M. impatiens* Lec. NY (Sm).

- 7879 *M. nigricans* Melsh. Newport, Je (NYS); Ithaca, Je 28-Jl 19 (CU); Albany, Je (NYS); Poughkeepsie, Je (NYS); **SI**, on seashore, Je (L&D).
- 7881 *M. ruficeps* Lec. "Around NYC" (Sm); **SI**, Aug (Nic, L&D).
- 7883 *M. splendens* Sm. **SI**, Aug, on *Spartina* (Nic, L&D).
- 7888 *M. pustulata* Melsh. Axton, Je (M&H); Cranberry L., Je 9 (H); E. Aurora, May 1 (Dnd); Montour Falls, Je (H); Ithaca, Je-Jl (CU); Windsor, Je (Not); Scotia, Je (NYS); Rensselaer (NYS); West Pt. (Ds); **SI**, Je (L&D).
- 7889 *M. convicta* Lec. Olcott, Je 5 (Dt); Ithaca, Je, Jl 2 (CU); Windsor, Je (Not); West Pt. (Robn).
- 7891 *M. fuscipennis* Melsh. "Around NYC" (Sm).
- 7893 *M. morula* Lec. Ithaca, Je-Jl (CU); Windsor, Je (Not); West Pt., Je, Ds (Nic); **SI**, Je 26 (Nic, L&D).
- 7894 *M. ambusta* Lec. Olcott, Jl (Dt); Buffalo (Rein); Ithaca, Jl (CU); Poughkeepsie (NYS); "near NYC" (Sm); **SI**, Jl (L&D).
- 7899 *M. unicolor* Lec. Cranberry L., Jl (H); West Pt. (Robn).
- 7901 *M. marginalis* Say. "Common throughout the State" (Nic); Boston, Je (Dnd); Rock City, Je 9 (Lilj); Allegany Pk., Aug (Dnd); Ithaca, Ellis, Ap-Je (CU); Woodwardia Bog, Tompkins Co (CU); McLean (CU); **SI**, Je (L&D); **LI**: Farmingdale, Je (CU).
- 7903 *M. schauppi* Sm. "NY" (Sm).
- 7904 *M. vera* Lilj. "NY", one specimen in Univ. of Ill. (Lilj).
- 7905 *M. aequalis* Sm. Ithaca, Je 12 (CU).
- 7910 *M. pubescens* Fab. Common everywhere (Nic); Mt. Merino, Columbia Co, Jl (CU); Poughkeepsie, Je (NYS); West Pt. (Robn); Ft. Montgomery (Ds); Peekskill, Ap 9 (Lilj); vic. NYC (Sm); **SI**, Je (L&D); **LI**: Yaphank, Orient (Ds).
- 7912 *M. liturata* Melsh. Buffalo (Z&R); **SI**, Jl (Nic, L&D); **LI**: Aqueduct, Jamaica, *Shoe* (Nic).
- 7913 *M. fuscata* Melsh. Around NYC (Sm).
- 7915 *M. ptyptera* Lec. Catskills, Aug 3, a very rare insect hitherto recorded only from Pa. and Tex. (Nic).
- 7917 *M. cinereofasciata* Sm. Ithaca (Sm).
- 7925 *M. attenuata* Say. "NY" (Sm).
- 7926 *M. discolor* Melsh. **SI**, Jl 23, *Shoe* (Nic, L&D).

## ANASPIS Geoffroy

- 7938 *A. nigrina* Csiki. Ithaca, Je-Jl (CU); Schoharie (Not).
- 7942 *A. flavipennis* Hald. Mt. Whiteface, summit (Ds); Axton, Je (M&H); Newport, Cranberry Cr., May-Je (NYS); Cranberry L., Je-Jl (H); Long L. (Ds); Buffalo (Z&R); Batavia, Jl (Kngt); Ithaca, May-Je (CU); Caroline to Harford, Je (CU); McLean, May (CU); Ringwood, Jl 24 (CU); Spencer L., Je (CU); Albany, May (NYS); Catskills (Nic); West Pt. (Ds); Peekskill, on flowers of *Viburnum prunifolium* (Sherm); **SI**, May, on *Veratrum* (L&D). On willow catkins, also on shadbush when in bloom (Felt).
- 7943 *A. rufa* Say. Cranberry L., Je 14-20, extremely abundant on blossoms of *Spiraea*, *Rubus*, *Acer*, *Sambucus*, etc. (H); Olcott, Je-Jl (Dt); Buffalo (Z&R); Protection, Jl (Flet, Dnd); Portageville, Je; Montour

Falls, Je (H); Ithaca, Ringwood, May-Aug (CU); Enfield, J1 (Lilj); Windsor, Je (Not); Kenwood, Je (NYS); Rensselaer, Je (NYS); Poughkeepsie, Je (NYS); West Pt. (Robn); **SI**, Je (L&D).

# FAMILY RHIPIPHORIDAE

## PELECOTOMA Fischer

7946 **P. flavipes** Melsh. NY (ANSPHorn).

## MACROSIAGON Hentz

7949 **M. flavipenne** Lec. West Pt. (Robn); **SI**, J1 (L&D); **LI**: Aqueduct, J1, *Shoe* (Sf).

7950 **M. dimidiatum** Fab. Newport, *Lg* (NYS); Peekskill (Sherm); **SI**, J1-Aug (L&D).

7953 **M. pectinatum** Fab. West Pt. (Robn); **SI**, Aug (Sf); **LI**: Rockaway Beach (*Shoe*).

7954 **M. cruentatum** Germ. Peekskill (Sherm).

7956 **M. limbatum** Fab. West Pt. (Robn); Peekskill (CU); Mosholu, Aug (NYS); Nyack (AM); White Plains, J1 (Fall, Sq); **SI**, J1-Aug (L&D); **LI**: Southold, Orient Pt., Aug-Sep (NYS).

## RHIPIPHORUS Bosc d'Antic

7958 **R. luteipennis** Lec. Karner, Aug 13, *Yg* (NYS); Mosholu, Aug (Sf); **SI**, Aug (L&D); **LI**: Montauk, Aug, *Eng* (Sf).

7967 **R. fasciatus** Say. Speculator, J1 (NYS); Ithaca, J1-Aug (CU); Albany, Nassau, J1-Aug (NYS); New Baltimore (AM); **LI**: Riverhead, *Huck* (Flet).

7968 **R. schwarzi** Lec. Buffalo (Z&R).

7969 **R. walshi** Lec. "NY" (Lec).

7970 **R. stylopides** Newn. Greenwood L. (Sf).

## FAMILY MELOIDAE

### SUBFAMILY MELOINAE

#### POMPHOPOEA LeConte

7990 **P. sayi** Lec. Newport, Je (NYS); Cranberry L., Je-J1 (H); Herkimer, Je (Cy); Wilmurt (CU); Frankfort (NYS); Gloversville, May (NYS); Boonville, Je, Utica, Je (Cy); Syracuse, Je (Cy); West Rush; Fairport, Je (Cy); Pittsford, Je (Cy); Batavia, Je (Cy); Lime, Je (Cy); Pavilion, Je (Cy); Williamson; Avon, Genesee, May (Cls); Mt. Morris, Je; Caledonia, Je; Tuscarora, Je; Livonia Center, Je; Portage (CU); Sonyea, J1 (Cy); Scottsville, Je; **Perry**, Je (CU); Castile, Je, *Brad* (Flet); Hammondsport; Weedsport, Je; Branchport, Je (Cy); Lakemont, Je (Cy); Valois, May (Cy); Schuylerville (Felt); Lowman, Je (Cy); Wellsburg, J1 (Cy); Owego, Je (Cy); Binghamton, Je (Cy); Nunda, Je (Cy); Nineveh, Je; Berkshire, Je (Cy); Elmira, Je (Cy); Waverly, Je (Cy); Ithaca, Je; McLean Bogs, Je; Newfield, Je (Cy); Interlaken, Je (Cy); Cortland, Je (Cy); Moravia, Je; Cazenovia, Je (Cy); Windsor, Je (Not); Canajoharie, Je (Fitch); Fonda, May-Je (Felt); Schoharie, Je (Not, Lint); Schenectady, Je (Cy); Quaker Street, Je (Felt); Corinth, Je (NYS); Hartford, May-Je (Felt); Cambridge (Felt);



Clarksville (Felt); Slingerlands, May-Je (NYS); Castleton, May-Je (NYS); Voorheesville, Jl (NYS); Elsmere, May (NYS); Philmont, Je (Felt); Poughkeepsie, Je (NYS); West Pt. (Robn); Pine I. (AM); Ft. Edward, Je (Cy); western **SI**, May (L&D); **LI**: Mineola, Je (Cy).

- 7993 **P. aenea** Say. Frankfort (Lint); E. Auburn (Dnd); Ithaca, May, *Bish* (NYS); New Windsor (AM); West Pt. (Robn); Van Cort. Pk. (AM).

#### EPICAUTA Redtenbacher

- 8018 **E. vittata** Fab. Buffalo (Z&R); Cayuga Co (Lint); Valatie, Aug; Bethlehem, Je (Lint); West Pt. (Robn); **SI**, Jl-Aug (L&D); **LI**: Flatbush (AM).
- 8024 **E. cinerea** Forst. Buffalo (Z&R); Ithaca, Sep (Dt); West Pt. (Robn); **SI**, Jl-Aug (L&D).
- 8024a **E. cinerea** var. *marginata* Fab. Gowanda, Aug (Cy); Castile, *Brad* (Flet); Ithaca, Jl, Sep (Dt); Albany, Aug (NYS); Karner, Jl, Kenwood, Jl, Coeymans, Sep (NYS); Normanskill, Aug, *Leon* (NYS); White Plains, Jl-Sep (Cy); Tarrytown, Aug (Cy); **LI**: Brooklyn (Dt); Flatbush (AM); Hempstead, Jl (Cy); Roslyn (CU); Floral Pk., Jl (NYS).
- 8033 **E. pennsylvanica** DeG. Wilmington (Lint); Severance, Aug, *Bish* (NYS); Hope, Keene Val., Aug (NYS); L. Chazy, Je (NYS); Buffalo (Z&R); Avon, Aug (Cls); E. Aurora (Dnd); Cobleskill, Aug (Felt); Charleston Four Corners, Aug (Felt); Otto, Je (CU); Castile, *Brad* (Flet); Oswego, Aug (Cy); Worcester, Aug (Cy); Schenectady, Aug (Cy); Ithaca, Aug-Sep (CU); Watkins, Aug (NYS); Danby, Aug (CU); Candor, Aug (Cy); L. George (AM); Pawling, Sep (Cy); Albany, Sep (NYS); West Pt. (Robn); White Plains, Aug-Sep (Fall, Sq); Baldwin (AM); **SI**, Aug-Sep, on goldenrod (L&D); **LI**: Floral Pk., Aug (Leon); Mineola, Aug (Cy); Flatbush (AM); Orient, *Lath* (NYS).

#### MACROBASIS LeConte

- 8042 **M. unicolor** Kby. Plattsburg, Jl, Northville, Je, Ausable Forks, Je (NYS); Cranberry L., Je (H); Bulls Head (Lint); Buffalo (Z&R); E. Aurora (Dnd); Ithaca, Jl (Dt); Schoharie (Not); Canton, Jl (Leon); Elmira, Jl (CU); Waverly, Jl (Leon); Factoryville, Je (NYS); Saratoga Sps., Jl (NYS); Altamont, Jl (CU); Schenectady, Jl (CU); Gouverneur, Je (Leon); Albany, Jl, Nassau, Karner, Je (NYS); Clinton Corners, Jl (CU); Chatham, Jl (NYS); Florida (Cy); **SI**, Je-Jl (L&D); **LI**: Orient, Jl, *Lath* (NYS); Flatbush (AM).
- 8042½ **M. debilis** Lec. "NY" (Lec. in Proc. Acad. Nat. Sci. Phila. 6: 344, 1854).

#### LYTTA Fabricius

- 8066 **L. nuttalli** Say. **SI**: Eltingville, May 21, 1922, *Clarence Busted* (L&D).

#### MELOE Linnaeus

- 8142 **M. impressus** Kby. Syracuse, Ap, under stones (H); Westfield, May (Not).
- 8142a **M. impressus** var. *niger* Kby. "NY" (ANSP).

- 8147 **M. angusticollis** Say. Keene Val., Aug (NYS); Cranberry L., Jl-Aug (H); Newport, Je (NYS); Ausable Forks, Aug (Lint); Axton, Je (M&H); Ilion, Sep (NYS); Hannibal, Sep (Cy); Syracuse, Sep (Leon); Buffalo (Z&R); E. Aurora (Dnd); Avon, Aug (Cls); Pike, Je (NYS); Castile, *Brad* (Flet); Perry (Lint); Ithaca, Sep (Dt); L. George (AM); Karner, E. Schodack, Ap (NYS); E. Greenbush, Ap (NYS); Ft. Plain, Sep (NYS); White L. (AM); West Pt. (Robn); White Plains, Ap (Sq); **SI** (L&D); **LI**: Babylon (AM); Orient, *Lath* (NYS).
- 8148 **M. americanus** Leach. Cranberry L., Sep (Drk); Ithaca, Ap-May (Dt); **SI**, May (L&D).
- 8149 **M. moerens** Lec. "NY" (Lec); Lewis, Mar (NYS).

## ZONITIS Fabricius

- 8158 **Z. bilineata** Say. **SI**, Aug, on wild sunflower (L&D).

## NEMOGNATHA Illiger

- 8182 **N. nemorensis** Hentz. "NY" (Lec).

## TRICRANIA LeConte

- 8194 **T. sanguinipennis** Say. **SI**, found dead on sandy path at Watchogue, Ap 22, 1917 (L&D).

## FAMILY PYTHIDAE

## PYTHO Latreille

- 8203 **P. niger** Kby. Buffalo (Z&R); Ithaca, Nov (Flet); vic. NYC (AM).
- 8204 **P. planus** Hbst. Cranberry L., Je, common under bark of pine (H); Buffalo (Z&R); Pike, Je-Jl (NYS); Ithaca, Mar-Je (DtCU), Nov (Flet); Albany, May, Lansingburg (NYS); **SI**, Nov 1 (L&D).

## SALPINGUS Gyllenhal

- 8211 **S. virescens** Lec. Mt. Whiteface, Je (Ds); Ithaca, Aug 15 (Flet); Coy Glen, Ithaca, Aug 2, *Dt* (Vdyk); **LI**: Woodside, Je (Sf).

## RHINOSIMUS Latreille

- 8215 **R. viridiaeneus** Rand. Newport, Ap 28 (NYS); Buffalo (Z&R); McLean, Ap 17, *Babiy* (Flet); Ringwood, May (Vdyk); Catskills (Sf); West Pt. (Robn).

## FAMILY PYROCHROIDAE

## ISCHALIA Pascoe

- 8218 **I. costata** Lec. Wallface Mt., Jl 8, *Quirs* (Frost); E Jewett, Ap 18 (Ds).

## NEOPYROCHROA Blair

- 8220 *N. flabellata* Fab. Newport (NYS); Buffalo (Z&R); Geneva, J1 (Cls); Ithaca, J1 (FletCU); West Pt. (Robn); **SI**, Je–Aug (L&D); **LI**: Half Way Hollow Hills (Ds).
- 8221 *N. femoralis* Lec. Buffalo (Z&R); **SI**, May–Je (L&D); **LI**: Gardiners I. (Ds).

## SCHIZOTUS Newman

- 8224 *S. cervicalis* Newn. Axton, Je (M&H); Newport, May, L. Clear, Je (NYS); Cranberry L., Je (H); Buffalo (Z&R); Castile, May, *Brad* (Flet); Trenton Falls (Newn); Nassau, May (NYS).

## DENDROIDES Latreille

- 8225 *D. bicolor* Newn. Axton, Je (M&H); Newport, Je–J1 (NYS); Old Forge, J1 (FletCU); Cranberry L., Je–J1 (H); Olcott, Je, E. Aurora, J1 (Dnd); Buffalo (ANSP); Pike (NYS); Batavia, Je–J1 (Kngt); Genesee Co (Ds); Cattaraugus Co, Je (Ds); Ithaca, Je–J1 (DtCU); Broadalbin, Je, Menands, Aug, Rensselaer, J1, Clinton Hgts., J1 (NYS); Trenton Falls (Newn); **SI**, Je, Aug (L&D); **LI**: Aqueduct (Ds).
- 8226 *D. concolor* Newn. Peru, Cy, *Fbs* (FletCU); Axton, Je (M&H); Newport, Keene Val., Je (NYS); Saranac Inn, J1 (NYS); Cranberry L., Je–J1 (H); Mt. McIntyre, J1, *Leon* (NYS); Olcott, Je (Dnd); Conesus L. (Ds); Buffalo (ANSP); Geneva, J1 (Cls); Allegany Pk., J1 (Dnd); Rock City (Ds); Castile, *Brad* (Flet); Ringwood, Je, Ithaca, J1, at trap lantern (FletCU); Cortland Co, Je (Dnd); Trenton Falls (Newn); West Pt. (Robn); **LI**: North Beach (Olsen); Flushing (Ds).
- 8228 *D. ephemeroides* Mann. Olcott, Je–J1 (Dt); Ithaca, J1 12 (Dt).

## FAMILY PEDILIDAE

## PEDILUS Fischer

- 8243 *P. canaliculatus* Lec. Newport, Je (NYS); Erie Co, May–Je (Dnd); Castile, May, *Brad* (Flet).
- 8244 *P. elegans* Hentz. Ilion, May (NYS); Batavia, Je (Kngt); Ithaca, Je, *Horn* (Vdyk); Nassau, N. Chatham, Wappingers Falls, Je (NYS); Rensselaer, May (NYS); Sunnyside, May (NYS).
- 8245 *P. terminalis* Say. Buffalo (Z&R); Ithaca, May–Je (FletCU); Trenton Falls (Newn); Albany, Je (NYS); West Pt. (Robn).
- 8247 *P. fulvipes* Newn. Buffalo (Z&R); Pike (NYS); Marilla, Je (Dnd); Trenton Falls (Newn).
- 8248 *P. newmani* Lec. Axton, Je (M&H); Newport, May (NYS); Buffalo (Z&R); Batavia, Je (Ds); Marilla, Je (Dnd); Ithaca, May–Je (FletCU); McLean Bogs, Je (FletCU); Trenton Falls (Newn); Albany, Nassau, Je (NYS); Rensselaer, May (NYS).
- 8249 *P. cyanipennis* Bland. Catskills, Je (Ds).
- 8250 *P. labiatus* Say. Rochester Jct., Je, *Leon* (Flet); Buffalo (Z&R); Geneva, Je (Cls); Montour Falls, Je (H); Ithaca, J1 (Dt); McLean Bogs, Je (FletCU); Albany, Je, Rensselaer, May (NYS); West Pt. (Robn), as *pulcher*.

- 8251 **P. lugubris** Say. Newport, May (NYS); Northampton, Je (NYS); Ilion, May (NYS); Rochester Jct., Je, *Leon* (FletCU); E. Aurora, May (Dnd); Pike (NYS); Castile, *Brad* (Flet); Batavia, Je (Kngt); Windsor, Je (Not); Spencer, Port Byron, Je (Dt); Schoharie (Not); Corinth, May (NYS).
- 8252 **P. collaris** Say. Newport (NYS); Buffalo (Z&R); Port Byron (Dt); Ithaca, Je, *Ham* (Vdyk); Spencer, Je (Dt); Trenton Falls (Newn); Nassau, May (NYS); West Pt. (Robn).

## STEREOPALPUS LaFerte-Senectère

- 8264 **S. mellyi** Laf. Buffalo (Z&R).
- 8265 **S. vestitus** Say. Buffalo (Z&R).

## MACRATRIA Newman

- 8278 **M. confusa** Lec. Ithaca, Je (FletCU); Schoharie (Not).
- 8279 **M. murina** Fab. Buffalo (Z&R); **SI**, Jl (L&D).
- 8280 **M. ovicollis** Csy. "NY" (Csy).

## FAMILY ANTHICIDAE

## NOTOXUS Geoffroy

- 8289 **N. bifasciatus** Lec. Buffalo (Z&R); Lockport, Jl, Ithaca, Je (NYS); Karner, Je (NYS).
- 8302 **N. anchora** Hentz. Axton, Je (M&H); Ausable Forks, May, Wells, Jl (NYS); Saranac Inn, Jl (Ndm); Cranberry L., Je-Jl (H); Northampton, Je (NYS); Buffalo (Z&R); Batavia, Je (Kngt); McLean, Aug (Flet); Letchworth Pk., Jl (NYS); Schoharie (Not); Corinth, Je, Albany, Jl, Karner, Je (NYS).
- 8304 **N. monodon** Fab. Albany, Ap, *FTHartmann*, Cedar Hill, Je, E. Schodack, Mar, Normanskill, Ap (NYS); West Pt. (Robn); Ramapo (Ds); Suffern (AM); **SI**, Mar, May, Nov (L&D); **LI**: Central Pk., Ap (Eng).

## MECYNOTARSUS LaFerte-Senectère

- 8325 **M. elegans** Lec. Buffalo (Z&R); Ramapo (Ds). Possibly the same as *flavicans* Csy. (Lg).

## TOMODERUS LaFerte-Senectère

- 8334 **T. constrictus** Say. Phoenicia, Aug (NYS); **SI**, Feb, May (L&D).

## AMBLYDERUS LaFerte-Senectère

- 8340 **A. granularis** Lec. Buffalo (Z&R).
- 8342 **A. pallens** Lec. **SI**, Aug-Sep, about plant roots at seashore (L&D).

## ANTHICUS Paykull

- 8347 **A. formicarius** Laf. Mooers, Sep (Not); Lake Bluff, Sep, *Bish* (NYS); Buffalo (Z&R); Pike, Mar (NYS); **SI**, May, Sep, Nov (L&D); **LI**: Orient, Ap, *Lath* (NYS).

- 8348 **A. cinctus** Say. Chautauqua, Shokan (Lg); West Pt. (Robn); **SI**, Nov 6, *Joutel* (L&D); **LI**: Orient, *Lath* (NYS).
- 8350 **A. blandus** Csy. **SI**, May 18 (L&D); **LI**: Willetts Pt. (Csy).
- 8353 **A. obscurus** Laf. Buffalo (Z&R); Schoharie (Not); **LI**: Coney I., J1 (Lec).
- 8359 **A. sturmi** Laf. Cranberry L., Je 28, in box of fungi (H).
- 8372 **A. rejectus** Lec. "NY" (Lec).
- 8387 **A. floralis** L. Newport, Aug, Herkimer, Sep (NYS); Buffalo (Z&R); Batavia, J1-Sep (Kngt); West Pt. (Robn); **SI**, J1 (L&D).
- 8397 **A. ephippium** Laf. Buffalo (Z&R); Batavia, J1 (Kngt); Westchester Co, *Palm* (AM); **SI**, Je 4 (L&D); **LI**: Orient Pt., May, *Lath* (NYS).
- 8402 **A. scabriceps** Lec. Montour Falls, Je (H); **SI**, Aug, under log on seashore, and in sand (L&D).
- 8403 **A. compositus** Csy. **LI**: Willetts Pt. (Csy).
- 8417 **A. cervinus** Laf. Cranberry L., Je (H); Buffalo (Z&R); E. Aurora, Je, Dec (Dnd); Batavia, J1 (Kngt); Westfield, May (Not); **SI**, Aug, on seashore, Je 4 (L&D); **LI**: Orient Pt., May, *Lath* (NYS); Coney I., Ap (NYS).
- 8448 **A. melancholicus** Laf. **SI**, Je 5, on seashore (L&D).
- 8454 **A. pubescens** Laf. Johnstown, Sep, Albany, J1 (NYS); **SI**, Nov 6, on salt meadow (L&D).
- 8461 **A. festinans** Csy. Mooers, Sep (Not); Windsor, Je (Not).

## FAMILY EUGLENIDAE

## ELONUS Casey

- 8475 **E. basalis** Lec. Buffalo (Z&R); Ludlow, *Thompson* (Lg); **LI**: Cold Sp. Harb., J1, *Brb* (Sf).

## ZONANTES Casey

- 8480 **Z. signatus** Hald. NY (Hald).
- 8481 **Z. subfasciatus** Lec. Mosholu (Sf).
- 8484 **Z. fasciatus** Melsh. NY (Hald); Newport, May (NYS); Buffalo (Z&R); Ludlow, *Thompson* (Lg).

## VANONUS Casey

- 8492 **V. piceus** Lec. NY (Lec); Cranberry L., Je 23-Aug 4, in sweeping in marshy area, also flying about camp (H); Washington Co (Lg).
- 8494 **V. vigilans** Csy. Hudson Val. (Csy).
- 8495 **V. fusciceps** Csy. "Near NYC" (Csy).

## TANILOTES Casey

- 8501 **T. densus** Csy. McLean, Aug (Flet).



## FAMILY RHIPICERIDAE

## SANDALUS Knoch

- 8544 **S. petrophya** Knoch. Near NYC; **SI**, on beach; Aug 27, on sidewalk (L&D).  
 8546 **S. niger** Knoch. Ithaca, Sep (Dt), late Aug, *P. Miller*, *Fbs* (FletCU); West Pt. (Robn).

FAMILY ELATERIDAE <sup>42</sup>

## SUBFAMILY PYROPHORINAE

## ADELOCERA Latreille

- 8553 **A. aurorata** Say. Buffalo (Z&R); Olcott, Je (Dt); Lake Bluff, JI (NYS); Catskills, Je (Nic).  
 8554 **A. impressicollis** Say. Rochester (M&W).  
 8557 **A. brevicornis** Lec. Axton, Sep (M&H); Ausable Chasm, Sep, *Eng* (Sf); Batavia, JI (Kngt); Catskills, Je-JI, Aug (Nic, Ds).  
 8558 **A. oblecta** Say. Cranberry L., JI (H); Rochester (M&W); Buffalo (Say-ANSP); Castile, *Brad* (Flet); E. Aurora, Nov (Dnd); Windsor, Je (Not); Ithaca, Je (Vdyk); Catskills, Je (Nic); Big Ind. Val., JI, *Pears* (Sf); West Pt. (Robn); Pine L., Je (Sf); Mosholu, *Wat* (Lg).  
 8560 **A. marmorata** Fab. Paradox, JI, Essex Co, Aug, Ilion, Je (NYS); Gloversville, Je (NYS); Rochester (M&W); Buffalo (Z&R); E. Aurora, Je (Dnd); Albany, JI (NYS).  
 8561 **A. discoidea** Web. Olcott, Je (Dt); Rochester (M&W); Buffalo (Z&R); Ithaca, JI, Ap (Vdyk); Taughannock Falls, Ap (Dt, Vdyk); Albany, Ap (NYS); Peekskill (Sherm); West Pt. (Robn); **SI**, Mar-Sep (L&D); **LI**: Aqueduct, May, Wyandanch, Feb (Quirs); Parkville, *Dietz* (Sf); Central Pk., Aug, *Eng* (Sf).  
 8562 **A. avita** Say. Cranberry L., JI (H); Protection, Je (Dnd).  
 8563 **A. modesta** Boisd. Big Ind. Val., May, *Pears* (Sf).

## LACON Castelnau

- 8564 **L. rectangularis** Say. Buffalo (Z&R).

## ALAUUS Eschscholtz

- 8571 **A. oculatus** L. EYED CLICK BEETLE. Adirondacks (Felt); Newport, May (NYS); Herkimer, JI (Cy); Rochester (M&W); Leroy, Je (Cy); Honeoye Falls, Je (Ds); Buffalo (Z&R); Olcott, Oct (Dt); Castile, JI, *Brad* (Flet); E. Aurora, Je-JI (Dnd); Geneva, Ap, Je, Dec (Cls); Lorraine, Je (Cy); Ithaca, Je, Sep (CU); McLean Bogs, May 30 (CU); Albany, Je, Schenectady, Aug, Castleton, Dec (NYS); Poughkeepsie, JI (Cy); Ramapo, May (Ds); Middletown, Je (Cy); West Pt. (Robn); Croton L., Je (Cy); **SI**, May-JI (L&D); **LI**: Maspeth, Je (Ds); Flatbush, Babylon (AM); Jamaica, May (Quirs).

<sup>42</sup> The list for this family has been checked by J. A. Hyslop, Alan S. Nicolay, and E. D. Quirsfeld. Mr. Nicolay and Mr. Quirsfeld have supplied many records.

- 8572 **A. myops** Fab. Gloversville, May-Je (NYS); Buffalo (Z&R); **SI** (L&D); **LI**: Central Pk., Ap (Eng); Coney I., Rockaway (Schmelter); Wyandanch, Wading R., May (Quirs); Pinelawn, Ap, Je, Yaphank, May, Eng (Sf).

## HEMIRHIPUS Latreille

- 8576 **H. fascicularis** Fab. NY (Horn ANSP); NYC (Sf).

## MONOCREPIDIUS Eschscholtz

- 8596 **M. lividus** DeG. **SI**, Jl (L&D); **LI**: Manor, Sep, Eng (Sf).  
 8601 **M. vespertinus** Fab. **SI** (L&D).  
 8607 **M. auritus** Hbst. Newport, Je (NYS); Olcott, Ap, Je (Dt); Buffalo (Z&R); Pike, Je (NYS); Ringwood, Jl, McLean Bogs, May (Dt); Windsor, Je (Not); Albany, Je (NYS); West Pt. (Robn); Van Cort. Pk. (AM); **SI**, Mar (L&D); **LI**: Rockaway Beach, May-Je (Ds, Sf); Astoria, Flatbush (AM); Wading R., May, Little Neck, Ap (Quirs).  
 8609 **M. bellus** Say. Ithaca, May-Je (Dt); West Pt. (Robn); Van Cort. Pk. (AM); **SI**, Mar-May, Oct (L&D).

## AEOLUS Eschscholtz

- 8613 **A. amabilis** Lec. Vic. NYC (AM); **SI**, Mar, Je (L&D); **LI**: Rockaway, May-Je, Eng (Sf).  
 8614 **A. dorsalis** Say. Olcott, Feb-Oct (Dt); Buffalo (Z&R); Castile, Aug, Brad (Flet); Ithaca (US); West Pt. (Robn), as *elegans*; vic. NYC (AM); **SI**, May (L&D); **LI**: Rockaway Beach, May-Je, Eng (Sf); Flatbush, Ap, Eng (Sf).

## PITYOBIUS LeConte

- 8617 **P. anguinus** Lec. Buffalo (Z&R); Ithaca, Je (Dt); Haines Falls, Franck (Sf); Catskills, Aug (Nic); **LI**: Bellport, Aug (Nic); Bayshore, Jl, Olsen (Ds); Yaphank (Sf); Wading R., Jl, Eng (Sf).

## LIMONIUS Eschscholtz

- 8619 **L. auripilis** Say. Nassau, Poughkeepsie, May (NYS); Peekskill, Je, on Rumex (Sherm).  
 8624 **L. aurifer** Lec. Newport, Je (NYS); Cranberry L., Htly (H); Crown Pt., Je (NYS); Buffalo (Z&R); Westfield, May (Not); Catskills (Nic); North Branch (Schaupp); West Pt. (Robn).  
 8625 **L. propexus** Cand. Olcott, Jl (Dt); Buffalo (Z&R); **SI**, May-Jl (L&D).  
 ?**L. griseus** Beauv. Buffalo (ANSP); E. Aurora, Allegany Pk (Dnd); Windsor, Je (Not); West Pt. (Robn); Ithaca, Ap, Jl-Aug (Dt); Ramapo, Nyack, Je (Ds); Van Cort. Pk. (AM); **LI**: Parkville (AM); Flatbush, Astoria (AM); Yaphank, Pinelawn, Je, Eng (Sf).  
 8627 **L. confusus** Lec. E. Aurora, Je (Dnd); Macedon, May, on quince blossoms (Horn); Ithaca, May-Je (Dt); Taughannock Falls, May (Dt); Ringwood, Jl (Vdyk); vic. NYC (AM); **SI**, Je (L&D); **LI**: Flatbush (US).

- 8629 *L. plebejus* Say. West Pt. (Robn); **SI**, May (L&D); **LI**: Flatbush (AM).  
 8631 *L. aeger* Lec. Cranberry L., Je-Jl (H); Schoharie (Not); Ramapo, May-Je (Ds); Catskills (Nic); Slide Mt., Jl, *Shoe* (Sf); West Pt. (Robn); vic. NYC (AM).  
 8632 *L. pectoralis* Lec. Mt. Seward, 4500 ft., Je (M&H). Described from Calif.  
 8633 *L. quercinus* Say. Ithaca, Aug, Taughannock Falls, Aug (Dt); Ft. Montgomery, Nyack, Ramapo, Je (Ds); West Pt. (AM); Mosholu (Sf); Van Cort. Pk., May (Nic); **SI**, May-Je (L&D); **LI**: Flatbush (AM); Yaphank, May, Jl, *Eng* (Sf).  
 8635 *L. basillaris* Say. West Pt., Ft. Montgomery, Je (Ds); Bear Mt., Jl (Quirs); Ramapo, Je (Ds); Bronx Pk. (Sf); **SI**, May-Je (L&D); **LI**: Bellport, Je (Nic); Yaphank, May, Pinelawn, Je, *Eng* (Sf).

## NOTHODES LeConte

- 8639 *N. dubitans* Lec. E. Aurora, Je (Dnd); Castile, *Brad* (Flet); Ithaca, May-Je (Dt); Trenton (US).

## PHELETES Kiesenwetter

- 8640 *P. stigma* Hbst. Castile, *Brad* (Flet); Ithaca, Ap-Je (Dt); Catskills, Ap (Flet); West Pt. (Robn); **LI**: Wading R., May, *Schott* (Sf).  
 8649 *P. anceps* Lec. Western NY (Lec); Windsor, Je (Not).  
 8650 *P. ectypus* Say. Pike (NYS); Castile, *Brad* (Flet); Danby, Je, Ithaca, May-Je (Dt); Callicoon (AM).  
 8653 *P. refinitus* Ziegl. Ramapo, May (Ds); West Pt., May, *Robn* (Sf); **SI**, May (L&D); **LI**: Flatbush (AM).  
 8654 *P. nimbatus* Say. West Pt. (Robn); **SI**, May (L&D); **LI**: Flatbush, May, *Zab* (Sf); Pinelawn, Je, *Eng* (Sf).

## LEPTOSCHEMA Horn

- 8657 *L. bicolor* Lec. "NY" (Lec).  
 8658 *L. discalceatum* Say. Buffalo (Z&R); Ft. Montgomery, Aug, *Schott* (Sf).  
 8659 *L. oberndorferi* O. Schw. Described from NY.

## ATHOUS Eschscholtz

- 8662 *A. brightwelli* Kby. Buffalo (Z&R); western NY, generally distributed (Dnd); Ringwood, Jl (Vdyk); Olcott, Jl (Dt); Catskills, Aug (Nic); Bear Mt., Jl (Quirs); **LI**: Bellport, Aug (Nic).  
 8663 *A. acanthus* Say. Newport, Je (NYS); Cranberry L., Je-Jl (H); West Pt. (Robn); **LI**: Bellport, Jl (Nic); Yaphank, Jl, *Eng* (Sf).  
 8663b *A. acanthus* var. *maculicollis* Lec. Buffalo (Z&R); **SI** (L&D).  
 8667 *A. cucullatus* Say. Cranberry L., Jl (H); Olcott, Aug (Dt); Buffalo (Z&R); Castile, *Brad* (Flet); Ithaca, Jl (Vdyk); Catskills, Jl (Nic); Callicoon (AM); West Pt. (Robn); **SI**, Je-Jl (L&D); **LI**: Jamaica, Bellport, Jl (Nic).  
 8668 *A. scapularis* Say. Cranberry L., Je (H); Olcott, Je (Dt); Buffalo (Z&R); E. Aurora, Jl (Dnd); Ithaca, Je (Dt); Catskills, Aug (Nic); West Pt. (Robn).

- 8676 **A. rufifrons** Rand. Axton, Je (M&H); Cranberry L., Je (H); Wanakena, Aug (Drk); Buffalo (Z&R); Enfield Glen, Jl (Dt); Catskills, Jl (Nic); **LI**, *Pears* (Sf).

## LEPTUROIDES Herbst

- 8698 **L. productus** Rand. Cranberry L., Jl (H); Catskills (Nic); Olivera, Jl (Quirs).  
 8699 **L. denticornis** Kby. Axton, Je (M&H); Wallface Mt., Je (Quirs); Cranberry L., Je-Jl (H); Hamilton Co (Ds); Castile, Je, *Brad* (Flet); McLean, May (Dt); Catskills, *Pears* (Sf); Slide Mt., Jl (Quirs).

## LUDIUS Eschscholtz

- 8705 **L. virens** Schr. Mt. Whiteface (HyslopUS).  
 8706 **L. vernalis** Hentz. Adirondacks (Felt); Buffalo (Rein); Westfield, May (Not); Catskills, Je (Nic); Ithaca, May (Flet).  
 8707 **L. resplendens** Esch. Whiteface Mt., *Shoe* (Sf); Cranberry L., Jl (H); Catskills (Nic); Olivera, Jl (Quirs); **LI**: Central Pk., Wading R., Wyandanch, May, as *splendens* (Ds).  
 8708 **L. sjaelandicus** Müller. Buffalo (Z&R), as *tesselatus*; E. Aurora, Je (Dnd); Ithaca, May (Dt); Windsor, Je (Not); Saratoga, as *cuprascens* (Lec); West Pt. (Robn); **LI**: Bellport, Je (Nic).  
 8715 **L. pyrrhos** Hbst. Buffalo (Z&R); Dunkirk (HyslopUS); E. Aurora, Aug (Dnd); Ringwood, Jl (Dt); Lava, Jl, *Eng* (Sf); Ft. Montgomery, Jl (Ds); **SI**, Je-Aug (L&D); **LI**: Coney I. (US); Jamaica, *Pears* (Sf); Jl-Aug (Nic).  
 8721 **L. cylindricornis** Hbst. Cranberry L., Jl (H); Syracuse, Ap-May (Quirs,H); Olcott, May (Dt); Buffalo (Z&R); E. Aurora, Ap (Dnd); Onondaga Co, May (Quirs); Ithaca, Ap-Je (Hyslop,Dt); Cortland Co, Je (Dnd); West Pt. (Robn); Tarrytown, Ap (Dt); Ramapo, Mar (Ds); Mosholu (Sf); **SI**, Ap-May (L&D); **LI**: Central Pk., Ap, on dead pines, *Eng* (Sf); Flatbush (AM); Wyandanch (Quirs); Pinelawn, Je, *Eng* (Sf).  
 8722 **L. copei** Horn. Catskills, Je, *Nic* (Sf); Pine I., May, *Schott* (Sf).  
 8727 **L. fulvipes** Bland. Ithaca, May (Vdyk); Big Ind. Val., Oct, *Pears* (Sf); Catskills, *Pears* (Nic); West Pt. (Robn); vic. NYC (AM).  
 — **L. exilis** Not. Schoharie (Not).  
 8729 **L. appressus** Rand. Mt. Seward, Je (M&H); L. Clear, Saranac Inn, Je (NYS).  
 8731 **L. vulneratus** Lec. Crusoe L., Wayne Co, *Bish* (Dt).  
 8734 **L. elongaticollis** Ham. Catskills, Jl, *Shoe* (Sf).  
 8738 **L. tarsalis** Melsh. Wallface Mt., Jl (Quirs); Buffalo (Z&R); Ithaca, Ap, Je (Dt); Catskills, Ap (Nic); West Pt., Je (Sf); Ft. Lee (US); NYC, Mar (Quirs); **SI**, Ap (L&D); **LI**: Jamaica, Ap (Nic); Wading R. (Quirs); Long Beach, May, *Eng* (Sf).  
 8739 **L. spinosus** Lec. Mt. Seward, 4500 ft., Je (M&H); Cranberry L., Je-Jl (H).  
 8741 **L. insidiosus** Lec. Wallface Mt., Jl (Quirs); Slide Mt. (US); Catskills, *Pears* (Sf).

- 8745 *L. falsificus* Lec. Catskills, *Pears* (Nic).  
 8748 *L. sulcicollis* Say. Cranberry L., J1 (H); Buffalo (Z&R); E. Aurora, May (Dnd); Geneva, Mar (Cls); Ithaca, Ap-May (Dt); Trenton (US); Catskills, Aug, *Pears* (Nic); West Pt. (Robn); **LI**: Central Pk., Ap, *Eng* (Sf).  
 8761 *L. aethiops* Hbst. West Pt., J1, *Eng* (Sf); Bronx Pk. (Sf); **SI**, May-J1 (L&D); **LI**: Yaphank, Je (Ds).  
 8762 *L. hamatus* Say. Cranberry L., *Htly* (H); Olcott, May-Je (Dt); Buffalo (Z&R); Ithaca, May (Dt); West Pt., Je (Ds); Catskills, Je, *Pears* (Nic); Olivearea, Je (Quirs); Highland Falls (Quirs); Bronx Pk. (Sf).  
 8763 *L. propola* Lec. Buffalo (Z&R); Ithaca, May, J1-Aug, *Eng* (Dt).  
 8766 *L. triundulatus* Rand. Wallface Mt., J1 (Quirs); Cranberry L., J1 (H); Wanakena, Aug (Drk); Catskills (Nic); **LI**: Rockaway, May, *Schott* (Sf).  
 8769 *L. medianus* Germ. Buffalo (Z&R); West Pt. (Robn).  
 8771 *L. fallax* Say. Slide Mt., J1, *Shoe* (Sf); West Pt., J1, *Eng* (Sf).  
 8772 *L. mirabilis* Fall. Keeseville (US). Described from Calif.  
 8776 *L. splendens* Ziegl. West Pt., *Robn* (Sf); **LI**: Wyandanch, Wading R., May (Quirs); Rockaway Beach, May, *Eng* (Sf).  
 8777 *L. aereipennis* Kby. Jay, J1 (Britton); New Baltimore, May (NYS); Buffalo (Z&R); Ithaca, Ap-Je, Caroline, Ap (Dt); West Pt. (Robn).  
 8778 *L. nigricornis* Panz. Cranberry L., Je (H); Wallface Mt., *Shoe* (Sf).  
 8779 *L. aratus* Lec. West Pt. (Robn).  
 8780 *L. inflatus* Say. Buffalo (Z&R); Erie Co, May-Aug (Dnd); Westfield, May (Not); Ithaca, Je-J1 (Dt); Schoharie (Not); West Pt., Je-J1, *Eng* (Ds, Sf); Nyack, Je (Ds); Mosholu (Sf); Bronx Pk., Je (Ds); **SI**, Je (L&D); **LI**: Jamaica, *Pears* (Nic); Yaphank, May, Pinelawn, Je, *Eng* (Sf).  
 8791 *L. rotundicollis* Say. Buffalo (Z&R); Ithaca, Nov (Dt).  
 8793 *L. cruciatus* L. Catskills, May, *Pears* (Nic); Big Ind. Val., Je, *Pears* (Sf).  
 8796 *L. hieroglyphicus* Say. Whiteface (AldrichUS); Cranberry L., Je (H); Olcott, May-J1 (Dt); Buffalo (Z&R); E. Aurora, Ap-Aug, generally distributed (Ang); Geneva, Je (Cls); Elmira, Je, *Diven* (Dt); Ithaca, May-J1 (Vdyk); Windsor, Je (Not); Schoharie (Not); Eddyville, J1 (Hyslop, Dt); West Pt., Je (Ds); Pine L., Je (Ds); **SI**, Je (L&D); **LI**: Bellport, J1 (Nic); Orient Pt., Je (Ds); Rockaway Beach, Je, *Eng* (Sf); Long Beach, Yaphank, Je, *Eng* (Sf).  
 8802 *L. costalis* Payk. Wallface Mt., J1 (Quirs); Slide Mt., Je (Quirs).  
 8803 *L. estriatus* Lec. Wallface Mt., J1 (Quirs); Whiteface Mt., Je, *Shoe* (Sf).

## HEMICREPIDIUS Germar

- 8813 *H. decoloratus* Say. Buffalo (Rein); Erie, Allegany, and Cortland Counties, J1 (Dnd); Ithaca, J1-Aug, Ringwood, J1, Taughannock Falls, J1 (Dt); Danby, J1 (Dt); Schoharie (Not); Catskills (US); West Pt. (Robn); Tarrytown, Je (Dt); **SI**, Je (L&D).



- 8814 *H. memnonius* Hbst. Cranberry L., J1 (H); Buffalo (Z&R); Castile, Brad (Flet); E. Aurora, May-J1 (Dnd); L. Minnewaska, J1 (Ds); West Pt. (Robn); **SI**, J1-Aug (L&D); **LI**: Flatbush, Yaphank, J1, Eng (Sf); Orient, Lath (NYS).
- 8815 *H. brevicollis* Cand. **SI**, J1 (L&D).
- 8817 *H. bilobatus* Say. Buffalo (Z&R); Ithaca, Aug, Vdyk (Dt); Windsor, Je (Not); Callicoon (AM); **LI**: Flushing, Aug, Dow (Sf).

## CRYPTOHYPNUS Eschscholtz

- 8818 *C. hyperboreus* Gyll. Westfield, May (Not); Ithaca, Je-J1 (Dt); Oliverea (US).
- 8821 *C. exiguus* Rand. Newport, May (NYS); Axton, Je (M&H); Rochester (M&W); Buffalo (Z&R); Westfield, May (Not); Ithaca, Ap-J1 (Vdyk); Freeville, Je (Vdyk); **SI**, May, on oak (L&D).
- 8826 *C. abbreviatus* Say. Wallface Mt., J1 (Quirs); Westfield, May (Not); Ithaca, Ap (Dt); Freeville, Je (Dt); Cortland (Dnd); Schoharie (Not); West Pt. (Robn); **LI**: Long Beach, May, Eng (Sf).
- 8828b *C. nocturnus* Esch. var. *bicolor* Esch. Whiteface Mt., 4000 ft., Aug 24, (Hyslop, Dt).
- 8831 *C. lecontei* Lg. Herkimer Co, Dietz (Sf); Pike (NYS); Ithaca, Ap, Je-J1, Taughannock Falls, Ap (Dt); Catskills, J1 (Nic); Oliverea, Je, Shoe (Sf).

## HYPNOIDUS Stephens

- 8832 *H. striatulus* Lec. Ithaca, Je-J1 (Vdyk); Windsor, Je (Not).
- 8834 *H. choris* Say. Windsor, Je (Not); **LI**: Wading R., May (Quirs).
- 8837 *H. melzheimeri* Horn. Newport, Je (NYS); Westfield, May, Windsor, Je (Not); Ithaca, May (Dt); Taughannock Falls, May (Vdyk).
- 8841 *H. tumescens* Lec. Catskills, J1 (Nic); Stony Pt., Je (Ds).
- 8844 *H. aestivus* Horn. Altamont, Sep (NYS).
- 8848 *H. obliquatulus* Melsh. Windsor, Je (Not); N. Evans, May 14, MCV (Frost); Nassau, May (NYS); Catskills, J1 (Nic); Peekskill, Je (Ds); **SI**, usually on moist sandy banks (L&D).
- 8849 *H. pectoralis* Say. Newport, Je (NYS); central NY (US); Catskills, J1 (Nic); Oliverea, J1 (Quirs); West Pt. (Robn).
- *H. felti* Not. Westfield, May (Not).

## OEDOSTETHUS LeConte

- 8850 *O. femoralis* Lec. Buffalo (Z&R); Irving, Je (Dnd); Schoharie (Not).

## MELANACTES LeConte

- 8853 *M. piceus* DeG. E. Aurora, Aug (Dnd); West Pt., Je (Ds); Bear Mt., Je (Quirs); **SI**, May-J1 (L&D).
- 8855 *M. morio* Fab. West Pt. (Robn); **SI**, J1 (L&D).
- 8856 *M. puncticollis* Lec. **LI**: Jamaica (Nic).

## OESTODES LeConte

- 8859 **O. tenuicollis** Rand. Essex Co, J1 (Quirs); Cranberry L., J1-Aug (H); Buffalo (Z&R); Irving, Je (Dnd); Ithaca, J1 (Vdyk); Schoharie (Not); Catskills (HyslopUS).

## SUBFAMILY ELATERINAE

## PARALLELOSTETHUS O. Schwarz

- 8861 **P. attenuatus** Say. West Pt. (Robn); Bronx (Sf).

## CRIGMUS LeConte

- 8866 **C. abruptus** Say. Speculator, Aug, Lake Bluff, J1 (NYS); Buffalo (Z&R, US); Batavia, J1 (Kngt); Castile, Aug, *Brad* (Flet); Poughkeepsie, J1 (NYS); West Pt. (Robn); **LI**: Bellport, Aug (Nic); Yaphank, J1, *Eng* (Sf).

## OXYGONUS LeConte

- 8875 **O. obesus** Say. Buffalo (Z&R); E. Aurora, May-J1 (Dnd); Ithaca, Ap-May (Vdyk); McLean Bogs, May (Dt); Schoharie (Not).  
8876 **O. montanus** Sf. Slide Mt., Catskills, J1, *Shoe* (Ds, Sf).

## DOLOPIUS Eschscholtz

- 8878 **D. lateralis** Esch. Axton, Je (M&H); Cranberry L., Je, on Viburnum, maple, beech, willow, and goldenrod (H); Wanakena, Aug (Drk); Olcott, Ap-J1 (Dt); Buffalo (Z&R); E. Aurora, May-Aug (Dnd); Westfield, May (Not); Ithaca, May-J1 (Dt); McLean Bogs, May (Dt); Ringwood, J1 (Dt); Windsor, Je (Not); Ft. Montgomery, May (Ds); West Pt. (Robn); **SI**, May-J1 (L&D); **LI**: Woodside, May (Sf); Rockaway Beach, May, *Eng* (Sf).

## SERICUS Eschscholtz

- 8881 **S. viridanus** Say. West Pt. (Robn); Bronx Pk., *Dietz* (Sf); **SI** (L&D); **LI**: Yaphank, May (Ds).  
8882 **S. incongruus** Lec. Cranberry L., Je 18 (H); Redford, *Martin* (Sf); Windsor, Je (Not).  
8883 **S. silaceus** Say. Buffalo (Z&R); E. Aurora, Je, Boston, May, Allegany Pk., Aug (Dnd); Windsor, Je (Not); Ithaca, Je-J1 (Dt); West Pt., Je (Ds); **SI** (L&D); **LI**: Pinelawn, Yaphank, May-Je, *Eng* (Ds); Babylon (AM).  
8884 **S. honestus** Rand. Catskills, J1, *Shoe*, *Pears* (Nic, Sf); Oliveria (Shoe, US).

## AGRIOTES Eschscholtz

- 8885 **A. mancus** Say. Buffalo (Z&R); Erie Co, Je-J1 (Dnd); Cooperstown, Je (Cy); Locke, May (Felt); Castile, July, *Brad* (Flet); Bath, Aug (Hyslop-CU Econ); Ringwood, J1, Sep (Dt); Ithaca, Je-J1 (Leon); Windsor, Je (Not); West Pt. (Robn); Florida, May (CU); Pine I., J1 (Ds); NYC (US); **SI**, Mar-Je (L&D); **LI**: Huntington, Ap, Rockaway, Je, Glendale, Ap (Quirs); Flatbush, Ap, Jamaica, May, *Eng* (Sf).

- 8886 **A. stabilis** Lec. Axton, Je (M&H); Cranberry L., Je-Jl (H); Olcott, Je-Jl (Dt); Buffalo (Z&R); Avon, Je (Cls); Catskills (Nic).
- 8887 **A. insanus** Cand. West Pt., Ramapo, May-Je (Ds); **SI**, May-Je (L&D); **LI**: Wading R., May 30 (Nic).
- 8888 **A. fucusus** Lec. Axton, Je (M&H); Cranberry L., Je-Jl (H); Olcott, Je (Dt); Buffalo (Z&R); Allegany Pk. and Cortland Co, Je (Dnd); Catskills, *Pears* (Nic); Ithaca, May (Dt).
- 8888a **A. fucusus** var. *collaris* Lec. "NY", *Dietz* (Sf).
- 8893 **A. pubescens** Melsh. Cranberry L., Je, on maple blossoms (H); Buffalo (Z&R); E. Aurora, Je (Dnd); Windsor, Je (Not); Ithaca, Je-Jl (Dt); Catskills, *Pears* (Nic); West Pt. (Robn); **SI**, May (L&D).
- 8894 **A. limosus** Lec. Whiteface Mt., Jl, *Shoe* (Ds, Sf); Mt. Seward, 4500 ft., Axton, Je (M&H); Cranberry L., Je-Jl (H); Wallface Mt., Jl (Quirs); West Pt. (Robn).
- 8897 **A. oblongicollis** Melsh. Castile, *Brad* (Flet); E. Aurora, Je (Dnd); Bear Mt., Jl, Hewlett, Je (Quirs); Ft. Montgomery, Nyack, Ramapo, May-Je (Ds); West Pt. (Robn); **SI**, May-Je (L&D); **LI**: Bellport, Je (Nic); Yaphank, Je, *Eng* (Sf).
- 8900 **A. avulsus** Lec. "NY", *Dietz* (Sf).

## BETARMON Kiesenwetter

- 8904 **B. bigeminatus** Rand. Bear Mt., Jl (Quirs); Ft. Montgomery, Je, *Schott*, West Pt., Je, *Eng* (Sf).

## GLYPHONYX Candeze

- 8906 **G. recticollis** Say. Schoharie (Not); **SI**, Je (L&D).
- 8909 **G. testaceus** Melsh. **SI**, Jl (L&D).
- 8910 **G. inquinatus** Say. Montour Falls, Je (H).

ELATER Linnaeus <sup>43</sup>

- 8929 **E. cordatus** Horn. Cranberry L., Jl (Drk).
- 8932 **E. pullus** Germ. Axton, Je (M&H); Cranberry L., Je, on willow (H); Whiteface Mt., Sep (AM); Buffalo (Z&R); Catskills, *Pears* (Sf).
- 8934 **E. nigricollis** Hbst. Cranberry L., Jl 20 (H); Olcott, May, Sep (Dt); Buffalo (Z&R); E. Aurora, Mar, Je (Dnd); Geneva, Ap, Oct-Nov (Cls); Ithaca, Ap, Je, Nov (Dt); McLean Bogs, May (Dt); Cooks Falls, Oct, Yonkers, Ap-Nov (Quirs); West Pt. (Robn); **SI**, Feb-Je (L&D); **LI**: Little Neck, Nov, Queens, Nov, Wyandanch, Ap (Quirs); Pinelawn, Central Pk., Ap, *Eng* (Sf); Hewlett, Ap-May (Quirs).
- 8935 **E. linteus** Say. Syracuse, Ap, under bark (H); Buffalo (Z&R); E. Aurora, May, Sep-Oct (Dnd); Montour Falls, Ap 23 (H); Geneva, Sep-Oct (Cls); Ithaca, Je (Dt); Catskills, Je (Nic); Yonkers, Nov, Valhalla, Ap (Quirs); **SI**, Ap-Je (L&D); **LI**: Bellport, Je (Nic); Wyandanch, Ap, Little Neck, Ap-Nov (Quirs); Cold Sp. Harb., Ap, *Eng* (Sf).

<sup>43</sup> H. S. Barber points out that the *Elater* of authors is not the *Elater* of Linnaeus, wherefore *Ampedus Dejean* must be used.

- 8936 *E. sellatus* Dej. E. Aurora, May (Dnd); Castile, Je, *Brad* (Flet); Ithaca, Je (Vdyk, Dt); Freeville, Je (Vdyk, Dt); vic. NYC (AM); **SI**, Feb 2, under bark (L&D).
- 8937 *E. vitiosus* Lec. Buffalo (Z&R); Ithaca, Je (Dt); Windsor, Je (Not); Trenton (US); Yonkers, Feb (Quirs).
- 8938 *E. laesus* Lec. Buffalo (Z&R); E. Aurora, May-Je (Dnd); Ithaca, Je (Dt); Catskills, Je, *Pears* (Nic).
- 8939 *E. sayi* Lec. Buffalo (Lec-ANSP); NYC, May (Quirs); Bronx Pk. (Sf); **SI**, May (L&D).
- 8940 *E. verticinus* Beauv. Buffalo (Z&R); West Pt. (Robn); Mosholu (Sf); vic. NYC (AM); **SI** (L&D); **LI**: Wyandanch, Ap (Quirs); Yaphank, May-Je, *Eng* (Sf).
- 8941 *E. semicinctus* Rand. Olcott, Je-Jl (Dt); Buffalo (Z&R); E. Aurora, May-Je, Grand I., Je (Dnd); Ithaca, Ap-May, Sep (Dt); Taughanock Falls, Ap (Dt); McLean (US); Trenton (US); Catskills, Je, *Pears* (Nic); West Pt. (Robn); Ft. Montgomery, May (Ds); Cooks Falls, Sep, Yonkers, Feb-Mar (Quirs).
- 8942 *E. militaris* Harr. Ithaca, Sep 16 (Dt); West Pt. (Robn); **SI** (L&D).
- 8943 *E. rubricus* Say. Axton, Je (M&H); Cranberry L., Je-Jl (H); Buffalo (Z&R); E. Aurora, Allegany Pk., Je-Aug (Dnd); Geneva, Sep-Oct (Cls); Ithaca, Ap-May (Dt); McLean Bogs, May (Dt); Windsor, Je (Not); Otsego Co (US); Trenton (US); Pine I., Je (Ds); **SI**, May-Jl (L&D); **LI**: Woodside, Je (Sf); Yaphank, May, *Eng* (Sf).
- 8948 *E. collaris* Say. Buffalo (Z&R); West Pt., Je (Ds); **SI**, May-Jl (Nic, L&D); **LI**: Bellport, Jl (Nic); Central Pk., May (Ds); Yaphank, May (Ds); Wyandanch, Jl (Quirs); Hempstead Plains, May, *Eng* (Sf).
- 8950 *E. sanguinipennis* Say. Cranberry L., Je-Jl (H); E. Aurora, May (Dnd); Castile, *Brad* (Flet); Geneva, Mar, Oct (Cls); **SI**, Ap-May (L&D); **LI**: Jamaica, Jl, *Pears* (Nic); Woodside, Ap (Sf).
- 8951 *E. xanthomus* Germ. **SI** (US); **LI**: Bellport, Je (Nic); Central Pk., May (Ds); Melville (US); Wyandanch, Ap (Quirs).
- 8953 *E. apicatus* Say. Saranac Inn, Je (NYS); Whiteface Mt. (US); Wallface Mt., Jl (Quirs); Johnstown, Oct (NYS); Buffalo (Z&R).
- *E. longipennis* Not. Cranberry L., *Htly*, Montour Falls, Je, with query (H); Bear Mt., Jl (Quirs).
- 8955 *E. obliquus* Say. Buffalo (Z&R); E. Aurora, Jan, E. Elma, Je (Dnd); Madison Co, May 20, *Quirs* (H); Windsor, Je (Not); Callicoon (AM); West Pt. (Robn); **SI** (L&D); **LI**: Jamaica, *Pears* (Nic).
- 8955a *E. obliquus* var. *areolatus* Say. Castile, *Brad* (Flet); Ithaca, Jl (Vdyk); Schoharie (Not); **SI**, Sep (L&D).
- 8956 *E. pusio* Germ. **LI** (US).
- 8959 *E. manipularis* Cand. Olcott, Sep (Dt); E. Aurora, May, Allegany Pk., Jl (Dnd); Ithaca, Mar-Apr (Dt); **LI**: Bellport, Jl (Nic).
- 8960 *E. pedalis* Germ. Axton, Je (M&H); Buffalo (Z&R); Ithaca, May-Je (Dt); Pine I., Je (Ds); **SI**, Je (L&D); **LI**: Jamaica, Jl (Nic).
- 8964 *E. mixtus* Hbst. Axton, Je (M&H); Wallface Mt. (Quirs); Cranberry L., Je-Jl (H); Buffalo (Z&R); Ithaca, Jl (Dt); Ringwood, Jl (Dt); McLean Bogs, Jl, as *fuscus* (Hyslop, Dt); West Pt. (Robn); **SI**, May (L&D).

- 8965 **E. impolitus** Melsh. Ithaca, Je-Jl (Vdyk, Dt); Ringwood, Jl (Vdyk, Dt); Catskills, Je, *Pears* (Nic); **LI**: Jamaica (Nic).
- 8966 **E. socer** Lec. Mt. Seward, Je (M&H); Schoharie (Not); Ft. Montgomery, Jl, *Schott* (Sf).
- 8968 **E. luctuosus** Lec. Cranberry L., Je-Jl (H); Buffalo (Z&R); McLean Bogs, May (Dt).
- 8969 **E. nigricans** Germ. Wallface Mt., Jl (Quirs); Mt. Seward, Je (M&H); Cranberry L., Je-Jl (H); Olcott, Sep (Dt); E. Aurora, Je (Dnd); Windsor, Je (Not); West Pt. (Robn); Ithaca, May-Je (Dt); Ft. Montgomery, Je, *Schott* (Sf); **SI**: May-Je (L&D); Silver L., Jl (Sf); **LI**: Flatbush (AM).
- **E. longipennis** Not. Westfield, May (Not).

## ECTAMONOGONUS Buysson

- 8971 **E. melsheimeri** Lg. Cranberry L., Jl 17 (H); E. Aurora, May, Boston, Je (Dnd); Trenton (US); **SI**, Dec (L&D); **LI**: Aqueduct, May, Forest Pk., Ap, *Schott* (Sf); Port Jefferson, Aug, *Murphy* (Sf); Orient, *Lath* (NYS).

## MEGAPENTHES Kiesenwetter

- 8980 **M. limbalis** Hbst. **SI**, Jl-Aug (L&D); **LI**: Bellport, Jl (Nic); Aqueduct (Ds); Flatbush (AM); Babylon, *Johnson* (Sf).
- 8983 **M. rufilabris** Germ. Mosholu (Sf).
- 8988 **M. stigmaticus** Lec. Cranberry L., Aug (Drk).

## MELANOTUS Eschscholtz

- 9015 **M. castanipes** Payk. Cranberry L., Je-Jl (H); Buffalo (Z&R); E. Aurora, May-Je (Dnd); DeBruce, Jl (Quirs); West Pt. (Robn); **SI**, Je (Quirs); **LI**: Bellport, Jl (Nic); Sayville, Jl (Quirs).
- 9016 **M. corticinus** Say. E. Aurora, Je (Dnd); **LI**: Jamaica, *Pears* (Nic).
- 9018 **M. macer** Lec. "NY" (Lec).
- 9019 **M. decumanus** Er. Protection, Je (Dnd); NYC, Ap (Quirs); **SI**, Jl 2, at electric light (L&D).
- 9020 **M. canadensis** Cand. E. Aurora, May-Sep, common under bark (Dnd).
- 9022 **M. clandestinus** Er. **LI**: Orient, *Lath* (NYS).
- 9025 **M. ignobilis** Melsh. Ft. Schuyler, Je (Quirs); **LI**: Bellport, Aug (Nic).
- 9026 **M. depressus** Melsh. E. Aurora, May-Jl (Dnd).
- 9029 **M. trapezoideus** Lec. Bear Mt., Je (Quirs); **LI**: Wading R., May 20 (Nic).
- 9030 **M. taenicollis** Lec. **SI**, Je (L&D); **LI**: Flatbush (AM).
- 9031 **M. leonardi** Lec. West Pt. (Robn); Bear Swamp, Ramapo Mts., Jl (Ds); Bear Mt., Jl (Quirs).
- 9033 **M. glandicolor** Melsh. Catskills, Jl, *Pears* (Nic).
- 9034 **M. divarcarinus** Blatch. Schoharie (Not).
- 9035 **M. communis** Gyll. Buffalo (Z&R); Erie Co, May-Sep (Dnd); Montour Falls, Je (H); Orange Co (Felt); NYC, Mar (Quirs); West Pt. (Robn); **SI**, Ap-Je, Nov (L&D); **LI**: Orient Pt., Je, *Lath* (Ds); Hewlett, Je (Quirs).



- 9036 **M. fissilis** Say. Cranberry L., Je-Jl (H); Syracuse, May, under bark (H); Buffalo (Z&R); E. Aurora, Je-Jl (Dnd); Ithaca, Jl (Vdyk); Ringwood, Jl (Vdyk); West Pt. (Robn); NYC, Ap (Quirs); **SI**, May-Je, Sep (L&D).
- 9040 **M. parumpunctatus** Melsh. Catskills, Je, *Pears* (Nic); West Pt. (Robn); Bear Mt., Jl (Quirs); **SI**, Je-Jl (L&D).
- 9048 **M. pertinax** Say. Buffalo (Z&R); **SI**, Jl (L&D); **LI**: Bellport, Je (Nic).
- 9049 **M. dubius** Lec. "NY" (Lec).
- 9051 **M. americanus** Hbst. Pike (NYS); West Pt. (Robn); Bear Mt., Jl (Quirs); **SI**, Je-Jl (L&D).
- 9059 **M. sagittarius** Lec. E. Aurora, May (Dnd); **LI**: Bellport, Je-Aug (Nic).
- 9060 **M. difficilis** Blatch. Westfield, May (Not); Windsor, Je (Not).
- 9061 **M. pilosus** Blatch. E. Aurora, Cortland Co, May (Dnd).
- 9066 **M. similis** Kby. "NY" (Fitch).
- **M. hyslopi** VanD. Greenwood L., Jl (AM).

## SUBFAMILY CARDIOPHORINAE

## CARDIOPHORUS Eschscholtz

- 9071 **C. cardisce** Say. Rochester (M&W); Buffalo (Z&R); **SI**, Je (L&D); **LI**: Coney I. (F. Blanchard); Woodhaven, May (Vdyk, Dt); Babylon (AM); Rockaway, Je (Quirs); Amagansett, May, *Eng* (Sf); Rockaway Beach, Je, Sep, *Olsen*, *Schott*, *Eng* (Sf).
- 9082 **C. convexus** Say. Olcott, Jl (Dt); Karner, Je-Jl (NYS); West Pt. (Robn); **SI**, May-Je (L&D); **LI**: Wading R., May, *Schott*, Rockaway Beach, May, *Eng* (Sf).
- 9087 **C. gagates** Er. Axton, Je (M&H); Rochester (M&W); Boston, May (Dnd); Ithaca, Jl (Vdyk, Dt); Karner, Je (NYS); Mosholu (AM); Fishkill (US); West Pt. (Robn); **SI**, May-Je (L&D); **LI**: Wading R., May, very common (Nic); Hewlett, Je (Quirs); Pinelawn, Je, Yaphank, May, *Eng* (Sf).
- 9092 **C. convexus** Lec. Newport, May (NYS); Rochester (M&W); West Pt. (Robn); vic. NYC (AM); **LI**: Wading R., May (Nic).
- 9098 **C. robustus** Lec. Karner, Ap-May (NYS); **LI**: Jamaica, May, *Pears* (Nic).

## HORISTONOTUS Candeze

- 9104 **H. vulneratus** Horn. Buffalo (Z&R); **LI**: Wading R., May 30 (Nic). Hyslop queries these records, since this is an Arizona species.
- 9114 **H. curiatus** Say. West Pt. (Robn); Bronx Pk. (Sf).

## FAMILY MELASIDAE

## SUBFAMILY EUCNEMINAE

## MELASIS Olivier

- 9125 **M. pectinicornis** Melsh. Mosholu (Sf). Oak (Felt).

## ISORHIPIS Lacordaire

(Tharops Castelnau)

- 9127 **I. ruficornis** Say. Pike, Je (NYS); Newport, Je (NYS); Cranberry L., Jl (Hatch); Rochester (M&W); Olcott, Je (Dnd); Buffalo (Say ANSP); E. Aurora, Je (Dnd); Ithaca, Je-Jl (Dt); Greenwood L. (Sf); West Pt., Je (Sf); Catskills, Je-Jl (Pears); **SI**, Je-Jl, often on beech (L&D); **LI**: Jl, Eng (Sf); Montauk Pt., Aug, Eng (Not).

## STETHON LeConte

- 9130 **S. pectorosus** Lec. Rochester (M&W); Batavia, Jl (Kngt).

## DELTOMETOPUS Bonvouloir

- 9133 **D. amoenicornis** Say. Newport, Je (NYS); Cranberry L., Jl (H); Wanakena, Aug (Drk); Rochester (M&W); Buffalo (Z&R); Olcott, Je (Dt); E. Aurora, Jl (Dnd); Canandaigua (Bonv); Ithaca, Jl-Aug (Vdyk); McLean, Aug (Vdyk); Catskills, Je-Jl (Nic); Van Cort. Pk., Je-Jl (Nic); Mosholu (Sf); **SI**, on dead beech (L&D); **LI**: Yaphank, Je (Sf).
- 9134 **D. rufipes** Melsh. Olcott, Je (Dt); NYC (Sf).

## DROMAEOLUS Kiesenwetter

- 9136 **D. sejunctus** Bonv. Canandaigua (Bonv); **LI** (Horn).
- 9141 **D. striatus** Lec. "NY" (Horn).
- 9142 **D. harringtoni** Horn. "NY" (Horn).
- 9143 **D. cylindricollis** Say. Buffalo (Z&R); Mosholu (Sf).
- 9144 **D. marseuli** Bonv. Canandaigua (Bonv).

## FORNAX Castelnau

- 9147 **F. calceatus** Say. Cranberry L., Jl (H).
- 9150 **F. orchesides** Newn. Saranac Inn, Jl (NYS); Cranberry L., Je-Jl (H); Wanakena, Aug (Drk); Trenton Falls (Newn); Rochester (M&W); Buffalo (Z&R); **LI**: Bellport, Aug (Nic).

## MICRORHAGUS Eschscholtz

- 9154 **M. pectinatus** Lec. "NY" (Horn).
- 9155 **M. audax** Horn. NYC (Sf).
- 9156 **M. imperfectus** Lec. (*subsiniatus* Lec.). Johnstown (Yg NYS); Rochester (M&W); E. Aurora, Aug (Dnd); Bellport, Jl (Nic); Mosholu, Greenwood L. (Sf).
- 9157 **M. triangularis** Say. Bronx Pk (Dt); Mosholu (Sf); **SI** (L&D).
- 9159 **M. bonvouloiri** Horn. Rochester (M&W); Buffalo (Z&R); NYC and vic. (Sf).

## ENTOMOPHTHALMUS Bonvouloir

- 9161 **E. rufiolus** Lec. NYC and vic. (Sf).

## NEMATODES Latreille

- 9167 **N. penetrans** Lec. **LI:** Gardiners I., JI, *Eng* (Sf).

## HYPOCOELUS Eschscholtz

- 9172 **H. frontosus** Say. Adirondacks, *Martin* (Sf); NYC and vic. (Sf); **SI**, JI (L&D).  
 9173 **H. terminalis** Lec. "NY" (Lec ANSP).

## SCHIZOPHILUS Bonvouloir

- 9174 **S. subrufus** Rand. NYC and vic. (Sf).

## EPIPHANIS Eschscholtz

- 9175 **E. cornutus** Esch. "NY" (Lec); Cascade (Springville, Erie Co), JI, *MTD* (Frost).

## PHLEGON Castelnau

- 9176 **P. heterocerus** Say. **LI:** Bellport, Aug, *Nic* (Sf).

## SUBFAMILY PEROTHOPINAE

## PEROTHOPS Erichson

- 9180 **P. mucida** Gyll. **LI:** Queens, Je, *Eng* (Sf).

## FAMILY THROSCIDAE

## DRAPETES Dejean

- 9182 **D. geminatus** Say. Buffalo (Z&R); Catskills, *Pears* (Nic); Ramapo, May (Ds); Van Cort. Pk. (*Pears*, Nic).  
 9185 **D. quadripustulatus** Bonv. Buffalo (Z&R).

## AULONOTHROSCUS Horn

- 9191 **A. punctatus** Bonv. Newport (NYS); Albany, Je (NYS); Catskills, JI *Pears* (Nic).  
 9195 **A. constrictor** Say. Newport, Speculator, Je (NYS); Axton, Je (M&H); Cranberry L., Je-JI (H); Buffalo (Z&R); Ithaca, Je (CU); Windsor, Je (Not); Schoharie (Not); Catskills, JI, *Pears* (Nic).  
 9198 **A. distans** Blanch. Je-JI, Cranberry L. (H).  
 9200 **A. convergens** Horn. "NY" (Lg Cat.).

## THROSCUS Latreille

- 9204 **T. chevrolati** Bonv. Axton, Je (M&H); Cranberry L., Je (H); Syracuse, May (H); Olcott (Dt); Westfield, May (Not); Buffalo (Z&R); Ithaca, Feb-Aug (Dt); Nassau, May (NYS); **SI**, Ap, in sifting (L&D); **LI:** Rockaway Beach, May (Nic).

FAMILY BUPRESTIDAE <sup>44</sup>**ACMAEODERA** Eschscholtz

- 9286 **A. tubulus** Fab. Common throughout the State (Nic). Rochester (M&W); L. Keuka, May (Vdyk-CU); Coy Glen, May, Ithaca, May-Je (Vdyk-CU); W. Danby, May (Vdyk-CU); Nassau, May (Yg); W. Hebron, Je (Lg); Peekskill, May (Sherm); West Pt., Je (Ds); Ramapo, May (Lg); Suffern (AM); **SI**, May (L&D); **LI**: Half Way Hollow Hills, J1 (Ds); Yaphank, May-J1 (Ds, Sf). Larva in hickory, white oak, and redbud (Fisher).

**CHALCOPHORA** Solier

- 9316 **C. virginienis** Dry. Locally common wherever pines occur (Nic). Peru, Je (Vdyk-CU); New Russia, Je (NYS); top of Mt. Whiteface, J1 (Ds); Cranberry L., J1 (Mund); Syracuse (Blkm); Rochester (M&W); Buffalo (Z&R); Yates Co (AM); Ithaca, Je-Oct (Vdyk-CU); Karner, Je-Aug (Yg); Slingerlands, Oct (NYS); New Baltimore (AM); **SI**, May (L&D). Larva in both hard and soft pines (Fisher).
- 9317 **C. lacustris** Lec. Ausable Chasm, Je (Vdyk-CU); Hague, Oct (AM). Nicolay regards this as a synonym of *virginienis*.
- 9320 **C. fortis** Lec. Local and rare (Nic). Keene Val., Je (Ds); Long L. (Lg); Axton, Je (M&H); Newport, J1 (NYS); Valcour I., J1, Black Br. (Lg); Fulton (Vdyk-CU); Rochester (M&W); Buffalo (Z&R); Conesus, Aug (Ds); Ithaca, May-J1 (Vdyk-CU); Pittstown, Oct (NYS); Croton-on-Hudson, Je-J1 (Ds); West Pt., Je (Ds, Robn). Larva in white pine (Fisher).
- 9321 **C. liberta** Germ. Locally common (Nic). New Russia, Je (NYS); Brant L., Doll (Sf); Syracuse (Blkm); Buffalo (Z&R); Enfield Glen, Je (Dt); Karner, Je, Schuylerville, Je (NYS); Albany, May (NYS).

**CHALCOPHORELLA** Kerremans

- 9323 **C. campestris** Say. Somewhat rare in NY (Nic). Buffalo (Lg-AM); West Pt. (Sf); vic. NYC (AM). Larva in beech, willow, buttonwood, and sugar maple (Fisher); in tulip tree (Felt).

**TRACHYKELE** Marseul

- 9332 **T. lecontei** Gory. **LI**: Brooklyn, one specimen from introduced lumber (Lg). Larva in cypress in the South (Fisher).

**DICERCA** Eschscholtz

- 9333 **D. divaricata** Say. Widely distributed and common. Mt. Whiteface, J1 (Ds); Mt. Seward, 4500 ft., Je (M&H); Axton, Je (M&H); Cranberry Cr., Je, Cr (Vdyk); Cranberry L., Je-Aug (Mund); Keene Val., J1, Newport, May, Big Moose, J1, Fultonville, Je (NYS); Redford, Peru, Black Br., Je (Vdyk); Ilion, J1 (NYS); L. Clear, J1 (Yg);

<sup>44</sup> W. S. Fisher and Alan S. Nicolay have gone over the list for this family and have made many suggestions and changes in synonymy. Mr. Fisher particularly has supplied the New York State food-plants for most of the species, where these were known.

- Manlius, May (Vdyk); Syracuse, Je-Jl (Blkm); Holley, Je (Vdyk); Honeoye Falls, Je, *Leon* (Vdyk); Rochester (M&W); Olcott, Je-Aug (Dt); Conesus L., Je (Ds); E. Aurora (Dnd); Batavia, *Kngt* (Morr); Buffalo (Z&R); Portageville (Ds); Westfield, Je (NYS); Rock City, Je (Vdyk); Castile, *Brad* (Flet); Ithaca, May-Jl (Vdyk, etc.); McLean Bogs, May-Aug (Vdyk); Elmira (Diven); W. Hebron (Lg); Schuylerville, Je (Yg); Albany, Jl, Karner, Je, Nassau, Aug, Glenmont, Je (NYS); New Baltimore, *Zab* (AM); E. Jewett, Aug, West Pt., May-Je (Ds); Croton-on-Hudson, Jl (Ds); Debruce (Shoe); Peekskill (Vdyk); Nyack, *Zab* (AM); Ramapo Mts. (AM); Mosholu (Ds); Grahamville, Jl (NYS); Bronx Pk. (AM); **SI**, Mar-Sep (L&D); **LI**, Jl, *Eng* (Sf). Larva in black birch, ironwood, linden, white ash, sugar maple, redbud, American elm, and black ash (Fisher); in apple, pear, cherry, and plum (Felt).
- 9334 **D. caudata** Lec. Adirondacks (Csy); E. Aurora, Je (Dnd); Ithaca, May, Oct (Vdyk); Catskills (Nic); Bangall, Sep, *Eng* (Sf); Ludlow (Lg); White Plains, Oct (Lg); Pine I., Je (Ds); NYC, Jl (Lg); **SI**: Richmond (L&D); **LI**: Bay Shore, Jl, *Ols* (Frost); Flushing, Je (AM). Larva in black birch (Fisher).
- 9335 **D. prolongata** Lec. Plattsburg, Jl (Ds); Mt. Whiteface, Jl, *Shoe* (Sf); Wilmington, Jl-Aug (Ds); E. Aurora, Je (Dnd); Ithaca, Je-Aug (Vdyk, Sf); Windsor, Je (Not). Larva in aspen and willow (Fisher).
- 9337 **D. punctulata** Schön. Taken commonly in beating pine, May-Sep (Nic); Buffalo (Z&R); L. Keuka, May, *Cr* (Vdyk); Ithaca, Ap-Aug (Vdyk); Karner, Mar, Je (NYS); Peekskill, Feb (Sherm); West Pt., Je (Ds, Not); **SI**: Richmond, Ap-Jl (L&D); **LI**: Central Pk., Aug (Ds); Rockaway (AM); Astoria (Lg); Bellmore, Sep, *Eng* (Sf); Massapequa, May (Shoe); Pinelawn, Bald Hill, Aug (Ds); Bellport, Je-Aug (Nic); Yaphank, Jl-Sep (*div.*); Amagansett, Sep (Ds); Deep Pond, Wading R., Jl-Aug, *Eng* (Ds). Larva in pitch pine (Fisher).
- 9340 **D. pugionata** Germ. A rather rare species (Nic). Rochester (M&W); Ithaca, Je-Sep (Vdyk); Catskills, Jl (Nic); Albany, May, *Lint* (NYS); West Pt., May (Ds); Minnewaska, Aug (Nic); Ft. Montgomery, Sep, *Schott* (Frost); Phoenicia, Aug, *MCV* (NYS); Bangall, Sep, *Eng* (Sf); Greenwood L., May (Sf); **LI**: Wyandanch, Oct, *Schott* (Frost). Larva in witch-hazel, alder, and Spiraea (Fisher); in oak and maple (Felt).
- 9341 **D. obscura** Fab. Buffalo (Z&R, Csy); E. Aurora (Dnd); Geneseo, Je (NYS); Ithaca (Vdyk); West Farms, Aug (AM); Bronx Pk., May-Jl (Lg); **SI**: Richmond, Long Neck, Feb-Sep, on hickory and often on persimmons (L&D). Larva in persimmon (Fisher).
- 9342 **D. lurida** Fab. The most abundant species in the State (Nic). Newport, Jl (NYS); Syracuse, hundreds bred from dead hickory (Blkm); Rochester (M&W); Honeoye Falls (Vdyk); Hamburg, Aug (NYS); Sonyea, Je (Vdyk); Ithaca, Ap-Oct, McLean Bogs, May (Vdyk); Elmira, Jl (Diven); Hague, L. George, Aug (Diven); Schoharie (Not); W. Hebron, Je (Lg); Poughkeepsie, May (NYS); West Pt., Je, Sep (Ds), Jl, *Eng* (Sf); Pine I., Je (Ds); Nyack (AM); Shokan, Jl (Lg); Croton-on-Hudson (Ds); West Farms, Aug (AM); Van Cort. Pk., May (Woodr); **SI**: Richmond, Feb-Sep, often on hickory (L&D); **LI**: Aqueduct, Jl, Half Way Hollow Hills, Jl (Ds); Rockaway Beach, May (Shoe); Flatbush, *Zab* (AM); Parkville (AM); Central Pk., Ap (Eng); Roslyn, Jl (NYS); Promised Land, Yaphank, Je, *Eng* (Sf); Amagansett, Sep, *Eng* (Sf). Larva in hickory, blue beech, and alder (Fisher).



- 9344 **D. spreta** Gory. Buffalo (Z&R, Knull). Nicolay believes this refers to *tuberculata*.
- 9345 **D. tenebrosa** Kby. L. Placid, Je, Speculator, Aug (NYS); Keene Val., Aug (Diven); Axton, Oct (M&H); Big Moose, Saranac Inn, Je-Jl, Yg (Not); Potsdam (Knull); Cranberry L., Je-Jl (Mund); Black Br., Je (Vdyk); E. Aurora, Je (Dnd); Pike (NYS). Larva in white pine, spruce, and arbor vitae (Felt).
- **D. distinguenda** Cast. "NY" (Frost). This species is distinct from *tenebrosa* Kby., according to Frost.
- 9346 **D. chrysea** Melsh. Mt. Whiteface, Jl 8 (Ds); L. George (Csy). This probably refers to *tenebrosa*, according to Nicolay.
- 9348 **D. dumolini** Cast. Ithaca, May 17 (Vdyk). Nicolay says, "unknown to me, may refer to *tuberculata*."
- 9349 **D. tuberculata** Cast. Long L., Aug. (Lint); Murray Bay, Essex Co, Aug (NYS); Keene Val., Aug, Big Moose, Jl (NYS); Syracuse, Ap (Blkm); Rochester (M&W); Buffalo (Lec, Z&R); Elmira, Je (Diven); Ithaca, May (Vdyk); Albany, Je (NYS); Peekskill (Vdyk); NYC (Csy); Bronx Pk., Van Cort. Pk. (Sf); **LI**: Brooklyn (Lec); Jamaica (Nic). Larva in hemlock (Fisher).
- 9349a **D. tuberculata** var. *scobina* Chev. Buffalo (Lg); West Farms (AM); **SI**: Richmond, Ap-Je (L&D). Larva in sour gum (Fisher); oak and hickory (Felt). Nicolay says this is the same as *tuberculata* Cast.
- 9350 **D. mutica** Lec. **LI**: Brooklyn, a single specimen reported many years ago by LeConte.

## POECILONOTA Eschscholtz

- 9351 **P. cyanipes** Say. Mt. Whiteface, Jl (Shoe); Wilmington, Jl-Aug, Dt (Vdyk, Ds); Keene Val., Aug (NYS); Brant L., *Doll* (Sf); Buffalo (Lg-US); Hemlock L., Aug (Vdyk); Ithaca, Aug, *Eng* (Sf). Larva in aspen (Fisher).
- 9351a **P. cyanipes** var. *erecta* Gory. Buffalo (Lg). Same as *cyanipes*, according to Nicolay.
- 9353 **P. thureura** Say. Buffalo (Z&R); Bear Mt., Jl 4, *Schott* (Nic). Larva in willow (Fisher).

## CINYRA Castelnau and Gory

- 9355 **C. gracilipes** Melsh. Iona I., Je, *Schott* (Frost); Bronxville, Je (Woodr); vic. NYC (AM); **SI**: Richmond, Great Kills, Old Place, on *Quercus bicolor* (L&D); **LI**: Rosedale, Jl, *Schott* (Nic); Half Way Hollow Hills, Jl (Ds). Larva in white oak, swamp oak, ironwood, and ash (Fisher).

## BUPRESTIS Linnaeus

- 9360 **B. sulcicollis** Lec. Ithaca, May 26 (Vdyk). Larva in pine (Fisher).
- 9363 **B. striata** Fab. Schroon L., Je, Paradox, Jl (NYS); Gloversville, Ap, *Alex* (NYS); Syracuse, Je (Blkm); E. Aurora, Jl (Dnd); Rock City, Je (Vdyk); Ithaca, Ap-Je (Vdyk); W. Danby, Je (Vdyk); Albany, Je (NYS); Catskills, *Pears* (Sf); Minnewaska, Jl (Nic); Valhalla, Ap, *Schott* (Frost); Bear Mt., Jl (Quirs); Greenwood L., Je (Nic); **LI**: Bay Shore, *Ols* (Nic). Larva in hemlock and in both soft and hard pines (Fisher). The record by Fitch of *aurulenta* L. from NY on spruce, May-Je, probably belongs here.

- 9363a **B. striata** var. **impedita** Say. Cranberry L., Je, rare (Mund); Greenwood L., Je (Nic); West Farms (AM). Larva in pine, found with the preceding species (Fisher).
- 9365 **B. decora** Fab. **SI**: Tompkinsville, May, in introduced lumber (L&D). Larva probably lives in pine in the South (Fisher).
- 9366 **B. salisburyensis** Hbst. Black Br. (Lg); Bear Mt., JI, *Schott, Quirs* (Nic). Larva in pine (Fisher).
- **B. salisburyensis** var. Ft. Montgomery, JI, *Schott*.
- 9367 **B. lineata** Fab. Syracuse (Blkm); Karner, JI (Lg); **LI**: Flatbush, Mar (AM); Pinelawn, Aug (Sf), *Champlain* (US); Bellport, JI-Aug (Nic); Yaphank, JI-Sep, Bay Shore, JI (Shoe); Long Pond, Wading R., JI (Ds). Larva in pitch pine and scrub pine (*Pinus virginiana*) (Fisher).
- 9368 **B. maculipennis** Gory. Adirondacks (Csy); Black Br., Je (Lg); Wanakena, Aug (Drk); Ithaca, Je-JI (Vdyk); Greenwood L., JI (Nic); **LI**: Massapequa, Je (Shoe); Bellport, JI-Aug, on pine (Nic). Larva in pitch pine and hemlock (Fisher).
- 9370 **B. maculativentris** Say. Peru, Je (Vdyk); Westport (Uhl-US); Mt. Whiteface, summit, JI (Ds); Wallface Mt., JI (Nic); Murray Bay (AM); Keene Val., Aug (Diven); Wilmington, Aug (Dt); L. Placid, JI (NYS); Jay, JI (Britton); L. Pleasant, JI, Long L., Aug, Old Forge, JI (NYS); Saranac L., Sep (Lg); Severance, JI-Aug (AM); Wells, Newport, JI (NYS); Cranberry L., Je-Aug (Mund); Gloversville, Aug (NYS); Syracuse (Blkm); Buffalo (Lg); Catskills (Lg); **LI** (Sf). Larva in pine (Fisher).
- 9372 **B. nuttalli** Kby. Cranberry L., JI (Drk).
- 9372a **B. nuttalli** Kby. var. **consularis** Gory. "NY", Dt (Sf); Cranberry L., Aug (Mund). Larva in pitch pine (Fisher).
- 9374 **B. rufipes** Oliv. "NY" (Not-AM). Not rare farther south in the U. S. (Nic). Larva in chestnut, American elm, beech, sour gum, hickory, white oak, tulip tree, and sugar maple (Fisher).
- 9377 **B. fasciata** Fab. Wilmington, JI (Shoe); Keene Val., JI-Aug (NYS); Saranac Inn, Aug (Woodr); Severance, JI, Paradox L., May, Aug (NYS); Brant L., *Doll* (Sf); Wells, JI (NYS); Cranberry L., JI-Aug (Knull); Wanakena, Nov (Drk); Syracuse (Blkm); Rochester (M&W); Buffalo (Z&R); Pike, JI (NYS); Ithaca, JI-Aug (Vdyk); Binghamton, Sep (Lg); L. George, Aug (AM); Gouverneur, JI (Lint); L. Minnewaska, JI (Ds); Nyack (AM); NYC (Knull). Larva in pine (Fisher); in maple and poplar (Felt).

#### XENORHIPIS LeConte

- 9379 **X. brendeli** Lec. Probably the rarest of our eastern buprestids (Nic). **LI**: Brooklyn (Horn). Larva in hickory (Fisher); in oak (Felt).

#### MELANOPHILA Eschscholtz

- 9384 **M. aeneola** Melsh. Common throughout the State, JI-Aug, taken beating pine (Nic). Black Br., Je (Lg); West Pt., Je, (Not); Ft. Montgomery, JI, *Schott* (Frost); **LI**: Wyandanch, Yaphank, JI (Ds); Bay Shore, JI (Sf); Loyd's Neck, JI, *Brb* (Sf). Larva in scrub pine (Fisher).

- 9387 **M. fulvoguttata** Harr. Very common in the northern woods on cut pine logs in Je-Jl (Nic). L. Placid, Je, Potsdam, Jl, Newport, Je (NYS); Mt. Marcy, 5344 ft., Aug (Diven); Mt. Whiteface, Jl (Shoe); Big Moose, Jl (Felt); Cranberry L., Je-Sep (Mund); Black Br. (Vdyk); Crittenden, from hemlock and spruce (B&S); Buffalo (Lg); Boston, May (Dnd); Ithaca, Je-Jl, Dt (Vdyk); Slide Mt., Jl (Shoe); Big Ind. Val., Jl, *Pears* (Sf); Poughkeepsie, Jl (NYS); West Pt., Je (Ds); Ft. Montgomery, Je, *Schott* (Frost); Scarsdale, Ap (NYS); Ramapo (Lg); NYC, Ap, *Eng* (Sf); **LI**: Rockaway Beach, Je, *Eng* (Sf). Larva in white pine, red spruce, hemlock, and American larch (Fisher).
- **M. drummondi** Kby. var. *abies* Champ. & Knoll. Mt. Whiteface, Jl 10, *Shoe*; Wallface Mt., Jl 15, N. Elba, Jl (Nic). Rather rare and local (Nic).
- 9391 **M. acuminata** DeG. Old Forge, Je, Murray Bay, Jl, Newport (NYS); Rochester (M&W); Buffalo (Z&R); Ithaca, Sep, Cy (Vdyk); Newburgh, May (Sf); Albany, Sep (NYS); Nyack (AM); **SI** (L&D). Larva in pine and fir (Fisher).

## ANTHAXIA Eschscholtz

- 9392 **A. viridifrons** Gory. Syracuse, Je (Drk); Rochester (M&W); Buffalo (Z&R, Lg); Batavia, Je (Kngt); Conesus L., Je (Ds); Portageville, Je (Not); Castile, *Brad* (Flet); Ithaca, May-Jl (Vdyk); West Pt., Pine I., Je (Not); Bronxville, Je (Woodr); NYC (Lg); **SI**, Je (Lg); **LI**: Massapequa, Yaphank, Jl (Woodr). Larva in American elm and hickory (Fisher).
- 9394 **A. aeneogaster** Cast. Apparently rare in the East, but common on the western coast (Nic). Newport, Gloversville, Aug (NYS); Rochester (M&W). Although this western species has been recorded from the East, there is some doubt of its occurrence in New York, species in this genus being easily misidentified (Fisher).
- 9395 **A. viridicornis** Say. A rare species (Nic). Peru, Je (Vdyk); Rochester (M&W); Ithaca, May (Vdyk); Schoharie (Not). Larva in willow, hickory, and elm (Fisher).
- 9396 **A. quercata** Fab. Common everywhere in Je on oak leaves (Nic). Rochester (M&W); Buffalo (Z&R); Crittenden, bred from larch (B&S); Ithaca, May, Jl-Aug (Chitt, Vdyk); Windsor, Je (Not); Schoharie (Not); Karner, Jl (NYS); Mosholu (AM); **SI**: Richmond, Je, on oak leaves (L&D); **LI**: Massapequa, Jl (Ds, Shoe); Wyandanch, Jl, Deep Pond, Wading R., Je (Ds); Yaphank, Je-Jl, *Eng* (Sf, Ds); Bayshore, Jl, *Ol's* (Frost). Larva in redbud, *Crataegus coccinea*, white pine, American larch, and chestnut (Fisher).

## AGRILAXIA Kerremans

- 9399 **A. flavimana** Gory. Bronxville, Jl (Woodr). Larva in white oak (Fisher).

## CHRYSOBOTHRIIS Eschscholtz

- 9405 **C. sexsignata** Say. Locally common throughout the State (Nic). Mt. Whiteface, Jl (Shoe); Cranberry L., Jl (Mund); Syracuse, bred from hickory (B&S); Rochester (M&W); Rochester Jct., Jl (Vdyk);

- Crittenden, Je-Jl, from larch (B&S); Buffalo (Lg, Z&R); Ithaca, Je-Aug (CU); Cropseyville, Je (NYS); Big Ind. Val., Jl, *Pears* (Sf, Nic); West Pt., Je (Ds); Bronxville, Jl-Aug (Woodr); **SI**: Richmond, Jl (Ds); **LI**: Aqueduct, Jl (Shoe); Flatbush, Jl (AM). Larva in hemlock, black and white oak, red maple, white swamp oak, walnut, butternut, and American larch (Fisher); in beech and birch (Fisher).
- 9407 **C. scitula** Gory. Some, at least, of the following localities may not refer to *scitula*, since there are no NY specimens in the USNM (Fisher). Rochester (M&W); Hastings, Je (Lg); Buffalo (Z&R); Ithaca, Je-Jl (CU); Karner, May (NYS); Bronxville, Je (Woodr); Van Cort. Pk. (Lg); **SI**, May-Je, on dogwood (L&D); **LI**: Brooklyn, Je-Jl (Shoe); Rockaway (AM); Jamaica (Nic); Montauk Beach, Jl 2 (Frost). Nicolay says *scitula* should be cut out and the records credited to *lecontei* Lg. Larva in white swamp oak and alder (Fisher); in white birch (Felt).
- 9408 **C. lecontei** Lg. Batavia, Je (Kngt); E. Aurora, Jl (Dnd); Ithaca, Je (NYS); Karner, May, Nassau, Je (NYS). Larva in alder, white swamp oak, and sumac (Fisher).
- 9436 **C. blanchardi** Horn. Rochester (M&W); Crittenden (B&S); West Pt., Je (Not, Robn-AM); Greenwood L., Jl (Nic); NYC (Lg). Larva in pitch pine and white pine (Fisher).
- 9448 **C. pusilla** Cast. Common everywhere, May-Aug (Nic). Big Moose, Jl (NYS); Cranberry L., Je-Aug, not common (Mund); Black Br. (Lg); Syracuse, Jl (Drk); Ithaca, Je-Jl (Vdyk); West Pt., Je (Ds); Ft. Montgomery, Je, *Schott* (Frost); **SI**: Richmond, Je (L&D); **LI**: Pinelawn, Wading R., Yaphank, Je-Jl (Ds, Sf). Larva in pitch pine and hemlock (Fisher).
- 9458 **C. trinervia** Kby. Mt. Whiteface trail, Jl 10, *Shoe* (Frost); Cranberry L., Je-Jl, bred from spruce, rather common (Mund); **LI** (Linell-US). Larva in pine (Fisher).
- 9459 **C. verdigripennis** Frost. Minerva, Jl 20, 1925, on balsam fir (*Frost*); Wallace Mt., Jl (Nic); Ft. Montgomery, Jl, *Schott* (Sf); Bear Mt., Jl, *Schott* (Nic).
- 9461 **C. dentipes** Germ. Common throughout the State on pine in Je (Nic). Mt. Whiteface, Jl (Shoe); Newport (NYS); Black Br., Je, *Cy* (Vdyk); Cranberry L., from larch (Mund); Broadalbin, Je (NYS); Crane Pond, Jl, *Bks* (NYS); Syracuse, Jl (Drk); Buffalo (Lg); Crittenden, from larch (B&S); Ithaca, May, Jl (Vdyk); Karner, Je-Jl (Felt); NYC (Lg); **LI**: Bellport, Je (Nic). Larva in white pine and American larch (Fisher).
- 9464 **C. floricola** Gory. Common wherever pine grows, May-Aug (Nic). Black Br., Je (Lg); Buffalo (Z&R); E. Aurora, Je (Dnd); Karner, Je-Jl (Lg); Ft. Montgomery, Jl, *Schott* (Sf); **LI**: Yaphank, Wading R., May, Jl, on pine (Ds); Central Pk., May (Woodr); Pennequid Barrens, Aug, *Eng* (Sf). Larva in pitch pine (Fisher).
- 9466 **C. femorata** Oliv. FLAT-HEADED APPLE-TREE BORER. Generally distributed and often injurious. Big Moose, Jl; Newport, Jl (NYS); Peru; Black Br.; Waddington; Cranberry L., Wanakena, Jl-Aug (Drk); Syracuse (Blkm); Ilion, Jl (NYS); Rochester, Rochester Jct.; Buffalo; Batavia, Jl (Kngt); Ashville, Jl (Cr); Castile, June, *Brad* (Flet); Egleston's Glen; Ithaca; Freeville; Elmira; Windsor, Je (Not); L. George; Albany; W. Hebron; New Baltimore; Pine L.; West Pt.; Dunderberg Mt.; Bronx Pk.; Bronxville; Riverdale; **SI**:

- Richmond; Watchogue; Clove Val.; **LI**: Astoria; Aqueduct; Rockaway Beach; Hempstead; Yaphank; Half Way Hollow Hills; various collectors, dates ranging from May to Sep. Larva attacks nearly all hardwood trees and has been recorded also from coniferous trees; probably more than one species is confused under this name (Fisher).
- 9467 **C. lesueuri** Cast. Cranberry L., Nov (Drk); Honeoye Falls, Je (Ds); West Pt., Je (Robn); Peekskill (Lg); Ft. Montgomery, May 30 (Lg); NYC (Woodr); **SI**: Richmond (L&D); **LI**: Central Pk., Je (Not); Yaphank, Jl (Not). Nicolay regards this the same as *femorata*.
- 9468 **C. scabripennis** Cast. Common in the northern part of the State in pine logs (Nic). Keene Val., Aug (NYS); Mt. Whiteface, summit, Jl, Shoe (Ds); Mt. Marcy, summit, Je-Jl (L&D); Mt. McIntyre, Jl (Bish-NYS); Wilmington, Je, Wells, Big Moose, Pike, Jl (NYS); Vandalia, Je (Vdyk); Ithaca, May-Sep; **LI**: Jamaica, May, *Pears* (Nic). Larva in white pine and hemlock (Fisher); in spruce (Felt).
- 9479 **C. harrisi** Hentz. "NY" (Fitch, Lg). Larva in scrub pine and white pine (Fisher).

## ACTENODES Lacordaire

- 9481 **A. acornis** Say. NYC (Lg); **SI**: Richmond, Je (L&D); **LI**: Rockaway Beach, Je (Shoe); Long Beach (AM); Yaphank, Je, *Eng* (Sf), Jl (Ds); Bellport, Wading R., Je (Nic); Orient Pt., Jl (Ds). Beetles often found on beach in wash-up (Nic). Larva in red maple, beech, black birch, hickory, and black oak (Fisher).

## EUPRISTOCERUS Deyrolle

- 9485 **E. cogitans** Web. Ithaca (Chitt); W. Albany, Karner, Je (NYS); West Pt., Je (Ds); Van Cort. Pk., Je (Nic, Sf); NYC (Lg); **SI** (Nic), forms galls on alder stems (Knull, L&D); **LI**: Aqueduct, Jl (Shoe). Larva makes galls on alder, both *Alnus rugosa* and *A. incana*.

## AGRILUS Stephens

- 9491 **A. bilineatus** Web. TWO-LINED CHESTNUT BORER. Common everywhere (Nic). Syracuse, Jl (Blkm); Rochester (M&W); Rochester Jct., Je (CU); Buffalo (Z&R); Protection, E. Aurora (Dnd); L. Keuka, May (CU); Ithaca, May-Jl, Taughannock Falls, Jl (CU); Albany, Je, Nassau (NYS); West Pt., Je, Nyack, Je (Ds); Mosholu (AM); Bronxville, Je (Woodr); **SI**, Je-Jl, on oak (L&D); **LI**: Old Westbury, Garden City (Felt); Flatbush, Je (AM); Aqueduct, Brooklyn, Je-Jl (Shoe); Rockaway Beach, May, *Eng* (Sf); Yaphank, May-Je (Ds, Sf); Half Way Hollow Hills, Deep Pond, Wading R., Je-Jl (Ds). Larva very injurious to oak, chestnut, and beech (Fisher).
- 9498 **A. acutipennis** Mann. Windsor, Je (Not); **LI**: Huntington, May, *Schott*, a variety (Frost); Central Pk., May (Shoe); Flatbush, Jl (AM); Yaphank, May (Lg), Je, *Eng* (Sf); Bellport, Je (Nic).
- 9503 **A. horni** Kerr. "NY" (Horn).
- 9504 **A. anxius** Gory. BRONZE BIRCH BORER. Keene Val., Aug (NYS); Mt. Whiteface, Wilmington, Jl (Ds); Axton, Je (M&H); Elk L., 2000 ft., Aug (Lint); Jay, Jl (Britton); Wells, Jl (NYS); New Russia, Aug (CU); Cranberry L., Je-Jl (Mund); Broadalbin, Je (NYS); Syracuse (Blkm); Rochester (Felt); Buffalo (Lg-US); E. Aurora (Dnd);



- Geneva (Felt); Elka Pk., Aug (Drk); Elmira (Felt); Ithaca, May-Je (CU); Karner (Felt); Hudson Falls, Je (NYS); Troy (Felt); E. Jewett, Aug (Ds); Peekskill (Lg); Ft. Montgomery, Je, *Schott* (Frost); NYC (Lg); **SI**: Richmond, Je (L&D); **LI**: Bellport, Je 30 (Nic); Bayshore, Jl, *Ols* (Frost), as *torpidus* Lec. Larva in white birch, aspen, willow, and various species of birch and poplar, often very injurious to white birch (Fisher).
- 9508 **A. lacustris** Lec. Schoharie (Not).
- 9512 **A. pensus** Horn. Niagara Falls, Jl, *MCV* (Frost).
- 9513 **A. ruficollis** Fab. RED-NECKED CANE-BORER. Generally distributed and common. Cranberry L., Je (Mund); Speculator, Aug (NYS); Newport, Je, Wells, Jl, Gloversville, May (NYS); White L. (AM); Luzerne, May (Cr); Honeoye Falls, Je (Ds); Syracuse, Je (Blkm); Rochester (M&W); Rochester Jct., Je (Vdyk); Olcott, Jl (Dt); Buffalo (Z&R); Erie Co, Je-Aug (Dnd); Batavia, Je-Jl (Kngt); Rock City, Jl (CU); Castile, *Brad* (Flet); Painted Post, May (Cr); Ithaca, Je-Aug, Taughannock Falls, Aug (CU); Schoharie, Jl (Lint); Albany, Delmar, Karner, Je (NYS); Nassau, Je (NYS); Athens (Lint); Poughkeepsie, May-Je (NYS); West Pt., Je (Ds); White Plains, May (Frost, Sq); Mosholu, Van Cort. Pk. (AM); NYC (Lg); **SI**: Richmond, Watchogue, Je (L&D); **LI**: Brooklyn, Je (Shoe); Flatbush, Je, Astoria (AM); Jamaica, Je (NYS); Pinelawn, Aug, Wyandanch, Jl, Massapequa, Jl, Half Way Hollow Hills, Jl (Ds); Farmingdale, Je (CU); Yaphank, Je, *Eng*, Jl (Ds). Larva injurious to blackberry, raspberry, and dewberry (Fisher).
- 9514 **A. lateralis** Say. Rochester (M&W); Buffalo, Je (Lg); NYC (Lg); **LI**: Massapequa, Jl (Shoe); Half Way Hollow Hills, Jl (Ds); Yaphank, Je, *Eng* (Ds, Sf); Bayshore, Jl, *Ols* (Frost); Bellport, Jl (Nic). Larva in bayberry and sweet fern (Fisher).
- 9515 **A. masculinus** Horn. Cranberry L., Je (Mund); Rochester (M&W); Buffalo, *Horn* (Lg); Rock City, Je (Ds); Ithaca, Je (Ds); Schoharie (Not); Pine I., May (Frost); **SI**: Richmond (L&D). Larva in box elder and red maple (Fisher).
- 9516 **A. pusillus** Say. Rochester (M&W); vic. NYC (AM).
- 9517 **A. defectus** Lec. Buffalo, Je (Lg, Frost); NYC (Lg); **LI**: Pinelawn (Shoe); Massapequa, May (Shoe); Wading R., Je (Nic). Larva in white oak (Fisher).
- 9518 **A. crnicornis** Horn. Ft. Montgomery, Je 17, *Schott* (Frost).
- 9520 **A. egenus** Gory. Common throughout the State on oak in Je (Nic). Axton, Je (M&H); Wanakena, Aug (Drk); Rochester (M&W); Olcott, Je-Jl (Dt); Batavia, Je (Kngt); Ithaca, May (Chitt); Schoharie (Not); West Pt., Je (Ds), Jl, *Eng* (Sf); Nyack, Mosholu, Je (AM); Bronxville, Je (Woodr); NYC (Lg); **SI**: Richmond, Je (L&D); **LI**: Brooklyn, May-Je (Shoe); Maspeth, May, *Ols* (Frost); Wyandanch, Je, Yaphank, Jl, Half Way Hollow Hills, Jl, Deep Pond, Wading R., Je, Aug (Not, Ds). Larva in locust (Fisher); in Virginia creeper (Kirk); in hickory (Chitt).
- 9521 **A. puncticeps** Lec. Buffalo (Z&R). Larva in butternut (Fisher). This is possibly an error according to Nicolay, but Fisher thinks the species should occur in the State.
- 9522 **A. cephalicus** Lec. Ft. Montgomery, Jl 11, *Schott* (Frost).

- 9523 **A. arcuatus** Say. Rochester (M&W); Olcott, Je (Dt); Buffalo (Lg); Elka Pk., Aug (Drk); E. Aurora, Aug (Dnd); Ithaca, Jl (Vdyk); Schoharie (Not); West Pt., Je (Ds); Greenwood L., Jl (Nic); White Plains, Jl (Frost, Sq); Mosholu (AM); Bronxville, Je (Woodr); NYC (Lg); **SI**, Je (L&D); **LI**: Central Pk.; Wyandanch; Brookhaven, Sep, *Schott* (Frost); Half Way Hollow Hills; Wading R., Je-Jl (Ds). Larva in beech, hickory, and black oak (Fisher).
- 9523c **A. arcuatus** var. **coryli** Horn. Van Cort. Pk., Je (Woodr); **LI**: Wyandanch, Aug 21, *Ols* (Nic). Larva forms galls on hazel, both *Corylus americana* and *C. rostrata* (Fisher).
- 9529 **A. imbellis** Cr. A rare species (Nic). Van Cort. Pk., Je (Ds); **SI**: Richmond, Je (L&D); **LI**: Queens, Jl (Frost); Flatbush, May-Je (AM); Central Pk., Jl (Ds); Farmingdale, Je-Jl (CU); Wyandanch, Jl (Ds); Yaphank, Je-Jl (Sf-AM).
- 9531 **A. fallax** Say. A rare species (Nic). Newport (NYS); Batavia, Jl (Vdyk); Buffalo (Z&R); NYC (Lg); **SI**: Richmond, Jl, *Woodr* (L&D); **LI**: Pinelawn, Je (Lg); Half Way Hollow Hills, Jl (Ds). Larva in honey locust and hackberry (Fisher).
- 9536 **A. subcinctus** Gory. White Plains, May 30, *Sq* (Frost); **SI**: Richmond, Je (L&D). Probably breeds in poison ivy, as adults are always taken on this plant (Fisher).
- 9537 **A. putillus** Say. Olcott, Jl-Aug (Dt); Cortland Co, Je (Dnd); Hoosick, Jl 15, 1925, in sweeping (*Frost*).
- 9539 **A. otiosus** Say. Very common throughout the State, May-Je (Nic). Syracuse, Je-Jl (Blkm); Rochester (Z&R); Rochester Jct., Je (CU); Olcott, Je-Jl (Dt); Batavia, Je (Ds); Buffalo (M&W, Lg); E. Aurora, Je-Aug (Dnd); Ithaca, May-Aug (CU); Schoharie (Not); Albany, May-Je, Karner, Je, N. Chatham, Je, Nassau, Je, Clinton Hgts., Je, St. Ile, Je (NYS); Ft. Edward, Je (Vdyk); Tivoli, May (NYS); Ft. Montgomery, Jl (Ds); West Pt., Jl (Sf); Pine I., Je (Ds); Poughkeepsie, W. Nyack, Je (NYS); Nyack, Je (Ds); Ramapo, May (Lg); Bronxville, Je (Woodr); vic. NYC (AM); **SI**: Richmond, Watchogue, May-Jl (L&D); **LI**: Cedarhurst, Jl (Woodr); Yaphank, Je-Jl (Ds); Wading R., May (Ds), Je (Nic); Peconic, May (NYS). Larva recorded from hickory, persimmon, dogwood, redbud, black walnut, butternut, and maple, but some of these host plants may apply to other species due to erroneous identification (Fisher).
- **A. frosti** Knull. White Plains, Je (Frost, Sq).
- 9540 **A. sinuatus** Oliv. SINUATE PEAR BORER. An introduced species. Confined to lower Hudson R. Val. as follows: Poughkeepsie; New Paltz; Marlboro; Newburgh; Middletown; Monsey; Port Chester; White Plains; Fishkill; Cornwall; Blauvelt; Yonkers; Ossining; Croton Falls; New Rochelle (Frost); Mt. Kisco; NYC. These records are from adults bred from pear, to which the insect is injurious, and also from quince, hawthorn, and Cotoneaster. Beetles appear in June (H. Glasgow).
- 9542 **A. politus** Say. Common, Je-Jl (Nic). Mt. Whiteface, 1000-4000 ft., Aug (CU); Chazy L., Je (NYS); Plattsburg, Jl (Shoe, Ds); Wilmington, Jl (Ds); Cranberry L., Jl (Drk); Newport, Je (NYS); Rochester (M&W); Rochester Jct., Je (CU); Buffalo (Z&R); Allegany Pk.,

Aug (Dnd); Cortland Co, J1 (Dnd); Windsor, Je (Not); Schoharie (Not); Elka Pk., J1 (Blkm); E. Jewett, Aug (Ds); Callicoon (AM); West Pt., Je (Ds); Ft. Montgomery, Je, *Schott* (Frost); West Pt., Je (Ds); Bronxville, Je (Woodr); Van Cort. Pk., Je (Woodr). Larva in striped maple and willow (Fisher); Felt records the species as making galls on twigs of white thorn (*Crataegus* sp.).

- 9547 **A. obsoletoguttatus** Gory. Occurs everywhere (Nic); Peru, Je (CU); Hague, J1, *Leon* (NYS); Honeoye Falls, Je (Ds); Rochester Jct., Je (CU); Buffalo, Je (Z&R, Lg); Olcott, Je-J1 (Dt); E. Aurora, Je (Dnd); Ithaca (Chitt); Windsor, Je (Not); Nassau, Je (NYS); West Pt., Je, Ft. Montgomery, J1, Nyack, Je (Ds); NYC (Lg); **SI**: Richmond, Je (L&D); **LI**: Pinelawn, Je, Half Way Hollow Hills, J1, Yaphank, May-J1 (Ds). Larva in beech, blue beech, ironwood, red oak, hickory, and birch (Fisher).
- 9548 **A. vittaticollis** Rand. Ausable Chasm, Je (Vdyk); Portage, Je (Kngt); Ithaca, J1, *Dt* (Vdyk); Windsor, Je (Not); West Pt., Je (Ds, Robn). Larva in shadbush (Fisher); in apple, pear, wild thorn, and wild crab apple (Brooks).
- 9551 **A. granulatus** Say. **SI**, Je (L&D). Larva in Lombardy poplar and cottonwood (Fisher).
- 9553 **A. lecontei** Saunders. **LI** (Horn). Larva in hackberry (Fisher).

#### RHAEBOSCELIS Chevrolat

- 9561 **R. tenuis** Lec. **SI** (Sf).

#### PACHYSCELUS Solier <sup>45</sup>

- 9564 **P. purpureus** Say. Rochester (M&W); E. Aurora, J1 (Dnd); Windsor, Je (Not); Poughkeepsie, May (NYS); Ramapo, May (Ds); Mosholu (Sf); NYC (Soltau-US); **SI**: Richmond, May-J1 (L&D); **LI**: Flatbush, Sep (AM); Newtown, Aug, *Doll* (Sf). Larva mines in leaves of bush clover (*Lespedeza* sp.).
- 9567 **P. laevigatus** Say (*ovatus* Say). Rochester (M&W); Ithaca, Aug, *Dt* (Vdyk); Albany, J1 (NYS); Garrisons, Je (Woodr); Mosholu, Je (Lg); Bronxville, Je (Woodr); Van Cort. Pk., J1 (AM); NYC (Lg); **SI**: Richmond, Je-Aug (Ds); **LI**: Brooklyn, Aug (Shoe); Flatbush, J1 (AM); Yaphank, Je-Aug (Ds, Sf). Larva mines leaves of *Desmodium canadense*, *D. pendula*, *Meibomia canadensis*, *Lespedeza capitata*, and *L. bicolor* (Fisher).

#### BRACHYS Solier <sup>46</sup>

- 9572 **B. aerosus** Melsh. Common everywhere on oak (Nic). Mt. Whiteface, summit, J1 (Ds); Clayville, Je, *Leon* (NYS); Rochester (M&W); Rochester Jct., Je (Vdyk); Olcott, Je-J1 (Dt); Buffalo (Lg); E. Aurora, Je-J1 (Dnd); Portageville, Je (Vdyk); Castile, May, *Brad*

<sup>45</sup> According to Fisher, the adults of all species of this genus are found feeding on the foliage of a great variety of plants.

<sup>46</sup> According to Fisher, the adults of this genus are found feeding on the foliage of a great variety of plants.

- (Flet); Westfield, May (Not); Rock City, J1 (Vdyk); Ithaca, Je-Aug (CU); McLean Bogs, May (CU); Dryden L., Je, Slaterville to Caroline, Je (CU); Montour Falls, Je (H); Windsor, Je (Not); Schoharie (Not); Nassau, May-Je, Albany, Je, Poughkeepsie, May (NYS); West Pt., Je (Ds, Robn); Staatsburg, Je (Woodr); Stony Pt., Je (AM); Ramapo, Je (Ds); Bronxville, May-Je (Woodr); Ft. Montgomery, May (Ds); Pine I., Je (Ds); Wappingers Falls, Je, *Leon* (NYS); West Lawn, J1, *Zab* (AM); **SI**: Richmond, Je-Aug (L&D); **LI**: Brooklyn, Je (Shoe); Massapequa, J1 (Ds); Farmingdale (CU); E. Hampton, Je (CU); Central Pk., May (Shoe); Pinelawn, Je, Half Way Hollow Hills, J1, Nissequogue, Je, Smithtown, Je, Wading R., May, Yaphank, J1 (Ds).
- 9572 **B. aereus** var. *rufescens* N. & W. Olcott, Je (Dt); Buffalo (Nic, Weiss); Catskills (Nic); **LI**: Jamaica (Fisher). Rarer than the typical species (Nic).
- 9573 **B. aeruginosus** Gory. Rochester (M&W); Allegany Pk., Aug (Dnd); Windsor, Je (Not); West Pt., Pine I., Je (Ds); **SI**: Richmond, Je (L&D); **LI**: Massapequa, May (Shoe); Central Pk., May (Shoe, Woodr, Sf); Pinelawn, Smithtown, Je (Ds); Yaphank, Je-J1 (Ds, Sf); E. Hampton, Je (CU); Bellport, Je-J1 (Nic).
- 9574 **B. ovatus** Web. Common on oak everywhere (Nic). Rochester (M&W); Olcott, J1 (Dt); Buffalo (Z&R); Batavia, Je-J1 (Kngt); Ithaca, Je-J1 (CU); Karner, May (NYS); Pine I., Je (Ds); Bronxville, Je (Woodr); Bronx Pk., May (AM); **SI**: Richmond, May-Je (L&D); **LI**: Flatbush, May-Je (AM); Rockaway Beach, Je, *Eng* (Sf); Massapequa, Central Pk., May-Je (Ds); Farmingdale, Je (CU); Pinelawn, Wyandanch, Central Pk., Bayshore, Smithtown, Selden, Wading R., Yaphank, May-Aug (Ds); Babylon (AM); E. Hampton, Je, Riverhead, J1 (CU). As *B. tessellatus* Fab. are the following: **SI**: Richmond (L&D); **LI**: Farmingdale, Je (Vdyk); Pinelawn, Central Pk., May-Je (Shoe); Riverhead, J1 (Vdyk). Larva mines leaves of oak (Fisher).
- 9574 **B. ovatus** var. *bellporti* N. & W. Windsor, Je (Not); **LI**: Pinelawn, Je (Lg); Yaphank, Wyandanch, J1 (Sf); Wading R., Bellport, Je, type locality (Nic). Not nearly so common as the typical species (Nic).

## TAPHROCERUS Solier

- 9578 **T. gracilis** Say. Common throughout the State (Nic). Newport (NYS); Gloversville, Je (NYS); Rochester (M&W); Buffalo (Z&R); Ithaca, May-Oct (CU); Windsor, Je (Not); Poughkeepsie, Je (NYS); White Plains, Je (Frost, Sq); Suffern, May, *Love* (Sf-AM); Ramapo Mts. (AM); Bronxville, May (Woodr); **SI**: Richmond, J1 (L&D); **LI**: Rockaway Beach, May (Shoe); Yaphank, Sep (Ds). Larval host plant unknown, but adult habits indicate coarse grasses (Fisher).

## MASTOGENIUS Solier

- 9584 **M. subcyaneus** Lec. Local and rare (Nic). Rochester (M&W); White Plains, J1 (Sq); Bronxville, J1 (Woodr); Bronx Pk. (Sf); NYC (Lg); **SI**: Richmond (L&D); **LI**: Aqueduct, J1 (Shoe); Jamaica (Frost). Larva in oak (Fisher).

## FAMILY PSEPHENIDAE

## PSEPHENUS Haldeman

- 9586 **P. herricki** DeKay (*lecontei* Lec.). Probably generally distributed throughout the State. Pike (NYS); Trenton Falls (Horn); Batavia, Jl (Kngt); Buffalo (Lec); Niagara Falls (Horn); Conesus L., Jl (Kngt); Oneida Co, Jl, *Clms* (Kngt); Oswego, Je-Sep (West); Ithaca and vic.; Schoharie (Not); Windsor, Je (Not); **SI**, Jl (L&D).

## FAMILY DRYOPIDAE

(*Parnidae*)

## HELICHUS Erichson

- 9603 **H. lithophilus** Germ. Mooers, Sep (Not); Rochester (M&W); Oneida Co, Aug (Dt, *Clms*); Buffalo (Z&R); Ithaca, Oct (Kngt), Nov (West-CU); Spencer L., Oct, *Lloyd* (Kngt); McLean, Oct (Kngt); Schoharie (Not); West Pt. (Robn); Greenwood L. (AM); vic. NYC (Ds).
- 9604 **H. fastigiatus** Say. Mooers, Sep (Not); Rochester (M&W); Oneida Co, Aug (Dt, *Clms*); Buffalo (Z&R); Ithaca, Jl (Kngt); Ludlow (Thompson); West Pt. (Robn); Troy (Lec); **SI** (L&D); **LI**: Babylon (AM).
- 9605 **H. striatus** Lec. Mooers, Sep (Not); Oneida Co, May-Sep (Dt, *Clms*); Batavia, Jl (Kngt); Buffalo (Z&R); Ithaca, Sep, *Kngt* (Dt); Freeville, May (Kngt).

## FAMILY HELMIDAE

## STENELMIS Dufour

- 9607 **S. linearis** Zimm. Mooers, Sep (Not); Schoharie (Not).
- 9608 **S. sinuata** Lec. Schoharie (Not).
- 9609 **S. crenata** Say. Mooers, Sep (Not); Saranac Inn, Aug (NYS); Oneida Co, May-Sep (Dt, *Clms*); Rochester (M&W); Olcott (Dt); Buffalo (Z&R); Ithaca, Je, Sep (Kngt, Dt); Freeville, May (Kngt); Schoharie (Not); Albany, Je (NYS); **SI**, May, Jl (L&D).
- 9610 **S. bicarinata** Lec. Mooers, Sep (Not); Ithaca, Jl (West-CU, Kngt, Dt); McLean (Dt).
- 9611 **S. quadrimaculata** Horn. Buffalo (Z&R); Ithaca, Jl (West), Sep (Kngt); Schoharie (Not).
- 9612 **S. vittipennis** Zimm. Batavia, Jl (Kngt); Oneida Co, Aug (Dt, *Clms*); Buffalo (Z&R); Ithaca, Ap, Jl, Oct (Kngt); **SI**, Oct, *Ds* (Kngt).
- **S. n. sp.** Esopus, Aug, *Ds?* (Kngt).
- **S. n. sp.** Batavia, Sep, 1915 (Kngt).

## HELMIS Latreille

- 9615 **H. vittata** Melsh. Mooers, Sep (Not); Batavia, Spencer L., Ithaca, Esopus, Sep-Oct (Kngt).
- 9617 **H. bivittata** Lec. Mooers, Sep (Not); Oneida Co, Aug-Sep (Dt, *Clms*); Rochester (M&W); Buffalo (Z&R); Spencer L., Oct (Kngt); Ithaca, Sep-Oct (Kngt); Washington Co, Aug (West).



- 9618 *H. quadrinotata* Say. Mooers, Sep (Not); Oneida Co, Jl-Sep (Dt, Clms); Rochester (M&W); Buffalo (Z&R); Ithaca, May, Sep (Kngt, Dt); Michigan Hollow, Je, *Lloyd* (Kngt); Washington Co, Aug (West); NYC (AM); **SI**, Aug, Oct (L&D).
- 9622 *H. pusilla* Lec. In rapids of Niagara R., Je (Lec); Batavia, Sep (Kngt); **SI**, Jl (L&D).

**LIMNIUS** Erichson

- 9633 *L. elegans* Lec. Ithaca, Sep (Kngt).
- 9634 *L. fastidius* Lec. Johnstown, Aug (NYS).
- 9635 *L. ovalis* Lec. Johnstown, Mar (NYS); Oneida Co, May-Sep (Dt, Clms); Ithaca, Je-Sep (Kngt, Dt); Freeville, Je (Dt-NYS), Je, *Lloyd*, May (Kngt).

**HETERELMIS** Sharp

- 9637 *H. nitidulus* Lec. "NY" (Lg).
- 9638 *H. latiusculus* Lec. Schoharie (Not).

**MACRONYCHUS** Müller

- 9640 *M. glabratus* Say. Mooers, Sep (Not); Saranac Inn, Aug, *Ndm* (NYS); Oneida Co, Je-Aug (Dt, Clms); Rochester (M&W); Olcott (Dt); Buffalo (Z&R); Castile, *Brad* (Flet); Ithaca, Aug (West), Oct (Kngt); McLean, May-Aug (West); Peekskill (Yg); **SI**, May (L&D); **LI**: Yaphank, Sep (Ds).

**ANCYRONYX** Erichson

- 9642 *A. variegatus* Germ. Ithaca, Oct (Kngt); **SI**, Sep 30, *Shoe* (L&D); **LI**: Babylon (Csy).

FAMILY **HETERO CERIDAE****HETERO CERUS** Fabricius

- 9645 *H. ventralis* Melsh. Westfield, May, Windsor, Je (Not).
- 9646 *H. undatus* Melsh. Ithaca, Jl 24, *Yuasa* (Vdyk); West Pt. (Robn); **SI**, May-Je, on salt meadow Ap 1 (L&D); **LI**: Long Beach, Jl 17 (Frost); Rockaway (AM).
- 9646a *H. undatus* var. *cuniculus* Kies. Buffalo (Z&R).
- 9646c *H. undatus* var. *mollinus* Kies. Buffalo (Z&R); **LI**: Coney I., eggs (Sanborn).
- 9648 *H. brunneus* Melsh. Newport (NYS); Syracuse, May (H); Ithaca, May, *Bish* (NYS).
- 9649 *H. schwarzi* Horn. Westfield, May (Not).
- 9650 *H. collaris* Kies. Syracuse, May (H); Westfield, May (Not).
- 9651 *H. tristis* Mann. Schoharie (Not); Westfield, May (Not); Hudson Falls, Aug (Sherm-CU); vic. NYC (AM); **LI**: Yaphank, Sep (Ds).
- 9653 *H. auromicans* Kies. **SI** (Horn); **LI**: Rockaway (AM).

## FAMILY GEORYSSIDAE

## GEORYSSUS Latreille

- 9654 **G. pusillus** Lec. Schoharie, three specimens (Not).

## FAMILY DASCILLIDAE

## SUBFAMILY DASCILLINAE

## EURYOPOGON Motschulsky

- 9659 **E. niger** Melsh. Rochester (M&W); Buffalo (Z&R); Peekskill (Frost-CU); West Pt. (Robn); Ft. Montgomery, May (Ds).

## ANCHYTARSUS Guérin-Ménéville

- 9663 **A. bicolor** Melsh. Buffalo (Z&R); **LI**: Yaphank, JI (Sf).

## SUBFAMILY EUBRIINAE

## DICRANOPSELAPHUS Guérin-Ménéville

- 9673 **D. variegatus** Horn. Van Cort. Pk., Je (Sf).

## ECTOPRIA LeConte

- 9674 **E. nervosa** Melsh. Newport (Yg); Mud Cr., Dryden L., Je (NYS); Schoharie (Not); Ramapo (Sf); Batavia, Je (Ds).  
 9674a **E. nervosa** var. *tarsalis* Lec. Buffalo (Z&R).  
 9674b **E. nervosa** var. *thoracica* Zieg. Rochester (M&W).

## SUBFAMILY EUCINETINAE

## EUCINETUS Germar

- 9678 **E. oviformis** Lec. Ithaca, May (Wolc,Dt).  
 9682 **E. terminalis** Lec. Buffalo (Z&R); Ithaca, May-Je (Wolc,Dt); **SI**, Sep 9 (L&D); **LI**: Jamaica, May, *Pears* (Sf).

## FAMILY HELODIDAE

*(Cyphonidae)*

## SUBFAMILY HELODINAE

## HELODES Latreille

- 9687 **H. pulchella** Guér. Buffalo (Z&R); West Pt. (Robn); **SI** (L&D); **LI**: Yaphank (Eng,Sf).  
 9688 **H. fuscipennis** Guér. (*thoracicus* Melsh.). Rochester (M&W); Buffalo (Z&R); West Pt. (Robn); **SI** (L&D).  
 9689 **H. thoracica** Guér. Olcott, JI (Wolc, Dt); Geneva, Je (Cls).

## MICROCARA Thomson

- 9690 *M. explanata* Lec. Rochester (M&W); Rochester Jct., Je, *Leon* (Flet-CU); Buffalo, Je 27, *MCV* (Frost).

## CYPHON Paykull

- 9691 *C. robustus* Lec. **LI**: Bellport, Je, *Nic* (Sf).
- 9692 *C. ruficollis* Say. Newport, May-Je (Yg); Rochester (M&W); Rochester Jct., Je, *Leon* (CU); Mud Cr., Je (NYS); Pike, Je (Yg); Olcott, Je (Wolc,Dt); Buffalo (Z&R); Schloer Cr., Oneida Co, Je (Dt); Westfield, May (Not); Ithaca, May-Je (Wolc,Dt); Montour Falls, Je (H); Nassau, May 25-26 (NYS); Catskills, *Pears* (Sf); West Pt. (Robn); **LI**: Yaphank, Je, *Eng* (Sf).
- 9693 *C. brevicollis* Lec. Rochester (M&W).
- 9696 *C. obscurus* Guér. Elizabethtown, Je 8 (Yg); Axton, Je (M&H); Black Br., Je (CU); Cranberry L., Je (H); Loon L., Je (CU); Wells, Jl 12 (Yg); Newport, May-Je (Yg); Castile, *Brad* (Flet); Pike, Je; Rochester (M&W); Olcott, Je (Wolc,Dt); Buffalo (Z&R); E. Aurora, May (Flet,Dnd); Ithaca, May-Jl (Wolc,Dt); Montour Falls, Je (H); Mix Cr. Val., Cattaraugus Co, Je (CU); McLean Bogs, May (CU); Woodwardia Bog, Tompkins Co (CU); Slaterville, Je (CU); Dryden L., Je (NYS); Schoharie (Not); Nassau, May 25-26 (NYS); Dug Mt., Aug 8 (Yg); Karner, Je (NYS); **SI**, Je (L&D); **LI**: Riverhead, Ap 11 (NYS).
- 9697 *C. collaris* Guér. Chazy L., Je 28 (NYS); Cranberry L., Je (H); Wana-kena, Aug (Drk); Cold Br., Oneida Co, Je (Dt); Rochester (M&W); Buffalo (Z&R); Newport, May-Je (Yg); Corinth, Je 22 (Yg); Ft. Edward, Je (CU); Karner, Je 6 (NYS); Poughkeepsie, May 18, 28 (Yg); West Pt. (Robn); W. Nyack, Je 14 (NYS); **SI**, May-Je (L&D); **LI**: Farmingdale, Je, *Morrow* (CU).
- 9698 *C. variabilis* Thunb. Cranberry L., Je, Jl (Dury, Drk, H); Oneida L., Aug (Drk); Rochester (M&W); Syracuse, flying, Ap-May (H); Olcott, Ap-Sep (Wolc, Dt); Buffalo (Z&R); Castile, *Brad* (Flet); Hilton (CU); Geneva, May (CU); Newport, May-Je (Yg); Pike, Je 1-Sep 28 (NYS); E. Aurora, May, Jl (Flet,Dnd); Clinton Hgts., Oct 8 (NYS); McLean, Ap (Kngt); Karner, Mar, Sep 18 (Bish); N. Chatham, Je 6 (NYS); Ithaca and vic., May-Aug (Wolc,Dt,CU); McLean, May (CU); Schoharie (Not); West Pt. (Robn); **SI**, May-Nov (L&D); **LI**: Wyandanch (Sf); Rockaway Beach, May, *Eng* (Sf); Montauk, Nov (NYS).
- 9699 *C. padi* L. Cranberry L., Je (H); Lake Bluff, Sep 9, *Bish* (Hoffman); Rochester (M&W); Ithaca, May-Je (Wolc,Dt); Slaterville, Je (NYS); Peekskill (CU); "**LI**", May (Sf).
- *C. n. sp.* McLean, Jl (Sf-CU,BM); **LI**: Cold Sp. Harb., *Brb* (Sf).
- 9702 *C. coarctatus* Payk. Ithaca, Je (Wolc,Dt).

## PRIONOCYPHON Redtenbacher

- 9703 *P. discoideus* Say. Peru, Je (Good-CU); Rochester (M&W); Newport (Yg); Buffalo (Z&R); E. Aurora, Jl (Flet,Dnd); Ithaca, Aug (Vdyk,Wolc,Dt); Karner, Je 4 (Yg); Mosholu, Je (Sf).

- 9704 **P. limbatus** Lec. Cranberry L., J1 (H); Mud Cr., Je (NYS); Ithaca, May-J1 (Wolc,Dt); Ringwood, Ap 16-Je 25 (Good); Catskills, Je *Pears* (Sf); **SI**, Je, Sep (L&D).

#### SCIRTES Illiger

- 9708 **S. tibialis** Guér. Ogdensburg, J1 (NYS); Rochester (M&W); Linden, J1 (CU); Pike (NYS); Ithaca, Je-J1 (CU); Albany, Je (NYS); Warwick, J1 (NYS); Kinderhook, J1 (NYS); Ilion, May (Yg); **SI**, J1 9 (L&D).
- 9709 **S. orbiculatus** Fab. Rochester (M&W); Wadsworth L., Je 13 (NYS); Sacandaga R., Je 27 (NYS); Catskills, *Pears* (Sf); Mosholu (Sf); vic. NYC (AM); **SI**, Je (L&D).

#### SUBFAMILY PTILODACTYLINAE

##### PTILODACTYLA Illiger

- 9716 **P. serricollis** Say. Newport, Je 1 (Yg); Rochester (M&W); Buffalo (Z&R); Ithaca, Je (Wolc,Dt); **SI**, Je (L&D); **LI**: Brooklyn, Aug (Eng); Yaphank (Sf).

#### FAMILY DERMESTIDAE

##### SUBFAMILY BYTURINAE

##### BYTURUS Latreille

- 9718 **B. unicolor** Say. AMERICAN RASPBERRY BEETLE OR FRUIT-WORM. Axton, Je (M&H); Wilmington, Wells, J1 (NYS); Cranberry L., Je-J1, on foliage of *Rubus* (H); Wanakena, Aug (Dnd); Gloversville, Mar (NYS); Syracuse, May (H); Wayne Co, J1, locally abundant (Cy); Buffalo (Z&R); E. Aurora, May (Flet,Dnd); Westfield, May (Not); Chautauqua Co, injurious (Cy); Rock City (Fbs-CU); Ithaca (Fbs-CU); Albany, Je, Nassau, May (NYS); Ulster Co, especially at Milton and Marlboro, also Kingston, injurious to raspberries; Debruce, J1, *Eng* (Sf); Rhinebeck, Cy (Fbs-CU); West Pt. (Robn); Newburgh, injurious; Mosholu (Sf); **SI**, May-J1 (L&D); **LI**: Orient Pt., Je (NYS).

##### SUBFAMILY THYLODRIINAE

##### THYLODRIAS Motschulsky

- 9723 **T. contractus** Mots. The well-known *Ignotus aenigmaticus* Slosson. NYC (Ds); **SI** (L&D); **LI**: Brooklyn (BM).

##### SUBFAMILY DERMESTINAE

##### DERMESTES Linnaeus

- 9725 **D. caninus** Germ. Gloversville, May (NYS); Buffalo, Je (Dnd); Karner, Je (NYS); Nyack (AM); Ithaca (Fbs-CU); West Pt. (Robn); Peekskill, in vacated bird's nest (Sherm); vic. NYC (AM); **SI**, May-Je, on dead animals (L&D); **LI**: Bergen Beach, Dec 1, in rotten log (Dow); Orient Pt., J1, *Lath* (NYS); Wading R., Amagansett, Greenport, Center I., May-Aug (Sf).

- 9725c **D. caninus** var. **nubipennis** Csy. Buffalo (Z&R), as *nubilus*; E. Jewett (Ds); Ft. Montgomery (Ds); **LI**: Wading R., Central Pk., Orient (Ds).
- 9730 **D. talpinus** Mann. Chafee, May, on dead hawk (Dnd).
- 9731 **D. carnivorus** Fab. "NY" (Lec), as *mucoreus*.
- 9732 **D. vulpinus** Fab. Buffalo (Z&R, Lec); Pike, May (NYS); Gowanda, May (Dnd); Ithaca (Fbs-CU); Albany, Jan-May (NYS); West Pt. (Robn); **SI**, Aug (L&D); **LI**: Rockaway (AM); Brooklyn (Sf).
- 9734 **D. frischeri** Kug. Gloversville, May (NYS); **SI**, Jl-Sep, often under dead fish, etc., on seashore (L&D); **LI**: Sea Cliff (Fbs-CU); Center I., Rockaway Beach, Promised Land, Orient (Ds); Amagansett, Aug (Sf).
- 9735 **D. nidum** Arrow. Buffalo (Z&R), as *elongatus*.
- 9737 **D. lardarius** L. LARDER BEETLE. Throughout the State, injurious to stored meats, skins, etc., and a well-known pest in insect collections. Axton, Je (M&H); Little Falls; Erie Co (Dnd); Watertown (Lint-NYS); Geneva (Cls); Buffalo (Z&R); Castile, *Brad* (Flet); Ithaca (Fbs-CU); Windsor, Je (Not); Utica; Cortland Co; Chenango Co; Delaware Co; Dutchess Co; **SI**, all seasons, mostly on stored provisions; **LI**, several localities (Sf).
- 9739 **D. pulcher** Lec. Buffalo (Z&R); Ithaca (Fbs-CU); Poughkeepsie, Jl (NYS).

## ATTAGENUS Latreille

- 9741 **A. pello** L. "NY" (Lg Cat.); Buffalo (Z&R).
- 9742 **A. piceus** Oliv. BLACK CARPET BEETLE. Elizabethtown, Je (NYS); Gloversville, Sep (NYS); Oswego Falls, Aug, *Bks* (NYS); Louisville (Lint); Buffalo (Z&R); E. Aurora, May (Dnd); Ithaca (CU); Cincinnati, Jl (Flet,Dnd); Albany, Ap (NYS); Schenectady (Lint); Coeymans (Lint); Poughkeepsie (Lint); West Pt. (Robn); NYC (Ds); Roseville (Ds); **SI**, in houses at all seasons, adults often common in spring (L&D); **LI**: Brooklyn, Flushing, *Eng* (Sf); Flatbush, *Zab* (AM).
- 9745 **A. deficiens** Csy. Windsor, Je (Not).
- 9749 **A. elongatulus** Csy. West Pt. (Robn); vic. NYC (AM).

## TROGODERMA Latreille

- 9770 **T. ornata** Say. Newport, Je (NYS); Honeoye Falls, *Leon* (Fbs-CU); Buffalo (Z&R); Albany, Sep (NYS); vic. NYC (AM); West Pt. (Robn); **SI**, May-Jl (L&D).
- 9772 **T. procera** Csy. **LI** (Csy).
- 9774 **T. tarsalis** Melsh. Albany, May (NYS); West Pt. (Robn); Nyack, *Zab* (AM); **SI**, Je, in stored nuts, Jl (L&D); **LI**: Flatbush, *Zab* (AM).
- 9785 **T. versicolor** Creutz. Ithaca (Fbs-CU), as *inclusa* Lec.; Albany, Ap-May, Aug (NYS); West Pt. (Robn); vic. NYC (AM).

## CRYPTORHOPHALUM Guérin-Ménéville

- 9816 **C. ruficorne** Lec. **SI**, May 31, on strawberry blossoms at Watchogue (L&D).
- 9824 **C. triste** Lec. Peekskill, May (Sherm), on dandelion; West Pt. (Robn).
- 9825 **C. picicorne** Lec. **SI**, Sep 21 (L&D); **LI**: Flatbush, Manor, Yaphank, May-Sep, *Eng* (Sf).



## ANTHRENUS Fabricius

- 9829 **A. scrophulariae** L. CARPET BEETLE or BUFFALO MOTH. Denmark, May (NYS); Gloversville; Oswego, Je (NYS); Syracuse; Rochester; Buffalo; Castile, *Brad* (Flet); E. Aurora, May-Je (Dnd); Lakewood; Hornell; Montour Falls, May-Je (H); Spencer L. (Fbs-CU); Caroline to Harford (Fbs-CU); Ithaca; Schoharie; Utica; Albany; Coeymans; Nyack (AM); Poughkeepsie; Suffern (AM); West Pt. (Robn); **SI**, out of doors on flowers, often on Pyrus in May; **LI**: Flatbush (AM); Yaphank, Sep. (Eng).
- 9829a **A. scrophulariae** var. **flavipes** Lec. "NY" (Lec).
- 9830 **A. thoracicus** Melsh. Buffalo (Z&R).
- 9832 **A. lepidus** Lec. Buffalo (Z&R). Described from Calif., and possibly mis-determined or introduced.
- 9835 **A. verbasci** L. Cranberry L., Je-Jl, on blossoms of Sambucus and yarrow; Syracuse, Montour Falls, in house and on flowers (H); Buffalo (Z&R); E. Aurora, Je (Dnd); Ithaca, Mar-May (div.); Albany (Lint); West Pt. (Robn); Suffern (AM); **SI**, Mar-May (L&D); **LI**: Flatbush (AM).
- 9837 **A. museorum** L. Schoharie (Not); White L., Je, *Zab*, L. George, *Zab* (AM); Albany (Felt); **SI**, Jl (L&D); **LI**: Flatbush, Jl (Eng).
- 9838 **A. castaneae** Melsh. Speculator, Je, Aug, Wells, Jl (NYS); Cranberry L., Oct (Drk); Ithaca (CU); Schoharie (Not); Albany, Je (NYS); Poughkeepsie, Je (NYS).
- 9839 **A. caseyi** Dalla Torre (*rotundulus* Csy.). "NY" (Csy).

## ORPHILUS Erichson

- 9843 **O. subnitidus** Lec. Buffalo (Z&R). Described from Calif., also from Col., possibly misdetermination for *ater*.
- 9844 **O. ater** Er. Buffalo (Z&R); Ithaca (Fbs-CU).
- 9846 **O. niger** Rossi. West Pt. (Robn); **SI**, May (L&D). According to Casey, this and *ater* are identical.

## FAMILY BYRRHIDAE

## SUBFAMILY NOSODENDRINAE

## NOSODENDRON Latreille

- 9847 **N. unicolor** Say. **LI**: Long Beach, Je, *Schott* (Sf); Flatbush, Ap, *Eng* (Sf).

## SUBFAMILY BYRRHINAE

## CYTILUS Erichson

- 9864 **C. alternatus** Say. "Northern NY" (Lec, in Proc. Acad. Nat. Sci. Phila., vol. 7, p. 115, 1856, as *varius* of Europe); Axton, Je (M&H); Newport, May (NYS); Potsdam (NYS); Saranac Inn, May (NYS); Rochester (M&W); Buffalo (Z&R); Pike (NYS); Castile, Ap, *Brad* (Flet); Batavia, Je (Kngt); E. Aurora, May-Je (Dnd); Westfield, May Windsor, Je (Not); Cinnamon L. (NYS); Rock City (Ds); Tarbel, Je (Ds); Ringwood, Jl, *Leon* (NYS); Ithaca Ap (Bish-NYS); Al-

bany, Karner, Nassau, May-Je (NYS); Rensselaer, May (NYS); West Pt., Ap, *Robn* (Ds); **SI**, Je, on ground among grass roots (L&D); **LI**: Long Beach, May, *Eng* (Sf).

#### BYRRHUS Linnaeus

- 9866 **B. pettiti** Horn. Cranberry L., J1 21, *Blkm* (H); Buffalo (Z&R).  
 9867 **B. cyclophorus** Kby. Catskills, *Pears* (Sf); Buffalo (Z&R).  
 9869 **B. americanus** Lec. Keene Val., J1 (NYS); Newport (NYS); Woodworth's L., J1 (NYS); Wanakena, Aug (Drk); Rochester (M&W); "Niagara" (Lec); E. Aurora, J1-Aug (Dnd); Aurora, Ap (Bish-NYS); Ithaca, J1 (Vdyk); Canaan, Je (NYS); Big Ind. Val., Je, *Pears* (Sf); West Pt. (Robn); vic. NYC (AM).  
 9873 **B. geminatus** Lec. Buffalo (Lec).  
 9889 **B. kirbyi** Lec. Albany, Je (NYS); Buffalo (Z&R).

#### PORCINOLUS Mulsant

- 9893 **P. undatus** Melsh. "NY" (J. Hamilton); Buffalo (Z&R), as *murinus*.

#### SYNCALYPTA Stephens

- 9895 **S. spinosa** Rossi. Rochester, *Moore* (Sf); Batavia, Je (Lg); McLean, May (Flet); Genesee Co, Je, *Ds* (Sf); Windsor, Je (Not).

#### SUBFAMILY LIMNICHINAE

##### LIMNICHITES Casey

- 9905 **L. punctatus** Lec. McLean, May, Je (Flet); Mooers, Sep (Not); Schoharie (Not).

##### EULIMNICHUS Casey

- 9913 **E. obscurus** Lec. NY (Lec).

#### FAMILY RHYSODIDAE

##### RHYSODES Dalman

- 9944 **R. americanus** Lap. Buffalo, as *exaratus* (Z&R); McLean Bogs, Nov (Vdyk).

##### CLINIDIUM Kirby

- 9946 **C. sculptile** Newn. North Branch (Schaupp).

#### FAMILY OSTOMIDAE

##### (*Trogositidae*)

##### CORTICOTOMUS Sharp

- 9954 **C. parallelus** Melsh. West Pt. (Robn); Mosholu (Sf); **SI** (L&D); **LI**: Jamaica (Pears); Rockaway Beach, May (Eng).  
 9957 **C. cylindricus** Lec. Buffalo (Z&R).

## AIRORA Reitter

- 9966 **A. cylindrica** Serv. Buffalo (Z&R); E. Aurora (Dnd); Ithaca, Jan 2 (Dt-CU).

## TEMNOCHILA Westwood

- 9976 **T. virescens** Fab. Karner (Felt); **SI** (L&D); **LI**: Bellport, Wading R. (Nic); Rockaway Beach, Je, Yaphank, Sep (Ds).

## TENEBROIDES Piller and Mitterpacher

- 9977 **T. mauritanicus** L. THE CADELLE. Throughout the State, infesting stored grains, cereals, etc.  
 9984 **T. bimaculatus** Melsh. Buffalo (Z&R); Bronx Pk. (Sf); **SI**, Je (L&D).  
 9989 **T. collaris** Sturm. **SI** (L&D).  
 9990 **T. americanus** Kby. Syracuse, in dying hickory (B&S); Buffalo (Zimm); Schuylerville, Oct (NYS); **SI** (L&D).  
 9991 **T. laticollis** Horn. Buffalo (Zimm); West Pt. (Robn); **LI**, Ap (Eng); Half Way Hollow Hills, Jl (Ds).  
 9994 **T. corticalis** Melsh. Rochester (M&W); Buffalo (Z&R); Syracuse, in dying hickory (B&S), and Ap, under bark (H); Peekskill (Sherm); **SI**, Ap-Jl, Nov (L&D); **LI**: Yaphank, Jl (Eng); Bellmore, E. Hampton, Sep (Eng); Half Way Hollow Hills, Jl (Ds); Orient, *Lath* (NYS).

## CALITYS Thomson

- 9998 **C. scabra** Thunb. Rochester (Moore); Buffalo (Z&R).

## OSTOMA Laicharting

- 10003 **O. ferruginea** L. Keene Val., Sep (Eng); Cranberry L., Je-Jl, under bark of dead tree (H).  
 10005 **O. pippingskoeldi** Mann. Cranberry L., Jl (H), but Schaeffer queries this determination since the species occurs in Alaska and Calif.  
 10007 **O. quadrilineata** Melsh. Buffalo (Z&R); E. Aurora, Chafee, May (Dnd); Mosholu (Sf); Catskills (Pears).

## THYMALUS Latreille

- 10010 **T. marginicollis** Chev. Cranberry L., Jl 7, under bark (H); Rochester (M&W); Buffalo (Z&R); Oakdale, Je (AM); Cortland Co, Je (Dnd); West Pt. (Robn); Bronx Pk. (Sf); **SI**, May-Je (L&D); **LI**: Wyandanch (Sf, Eng). Often found on the fungus *Polyporus betulinus* on white birch.

## FAMILY NITIDULIDAE

## SUBFAMILY CATERETINAE

## BRACHYPTEROLUS Grouvelle

- **B. pulicarius** L. (*Heterostomus*). Cranberry L., Je, in sweeping (H); Syracuse, May, in numbers on dandelion flowers (H); present in Niagara, Saratoga, and Schoharie Counties, and in parts of Albany

Co, also injuring strawberries in southern Columbia Co (Felt, Ins. Pest Survey, Bul. 2, p. 89); Dutchess Co, generally distributed in strawberry beds (Hervey); feeding on apples in Greene Co, May, *Mills* (Flet). Possibly these records all refer to *mordelloides* (Leng).

- **B. mordelloides** Not. Keene Val., Je (Not).

## CATERETES Herbst

- 10012 **C. pennatus** Murr. Buffalo (Z&R); Ithaca, Ap-May (CU); Normanskill, May, on willow blossoms (NYS); Ft. Montgomery, May, *Schott* (Sf).

## CERCOMETES Reitter

- 10016 **C. abdominalis** Er. Wells, Newport, May (NYS); Rochester (M&W); Buffalo (M&W); Allegany Pk., Jl (Dnd); Corinth, May (NYS); Durlandville, Je (Dt); Karner, Jl (NYS); West Pt. (Robn); Mosholu (Sf); **SI**, May-Je, on elder blossoms (L&D).

## BRACHYPTERUS Kugelann

- 10017 **B. urticae** Fab. Newport, May (NYS); Rochester (M&W); Buffalo (Z&R); Ithaca and Ellis to Slaterville, May-Aug (CU); Schoharie (Not); Burnt Hills (NYS); West Pt. (Robn); **SI** (L&D); **LI**: Cold Sp. Harb., Jl (Sf).

## AMARTUS LeConte

- 10022 **A. rufipes** Lec. Buffalo (Z&R); **LI**: Astoria (AM).

## SUBFAMILY MELIGETHINAE

## MELIGETHES Stephens

- 10025 **M. mutatus** Harold. Westfield, May (Not); Catskills (Sf); West Pt. (Robn), as *brassicae*.

## SUBFAMILY CARPOPHILINAE

## COLOPTERUS Erichson

- 10029 **C. maculatus** Er. Catskills, *Pears* (Sf); Bronx (Joutel).
- 10030 **C. semitectus** Say. Newport, Wells, May (NYS); Olcott, Je (Dt); Rock City, Je (CU); Poughkeepsie, Je (NYS); **SI**, Ap 24 (L&D); **LI**: Woodside, May, Aug (Sf).
- 10031 **C. unicolor** Say. Buffalo (Z&R).
- 10032 **C. truncatus** Rand. Big Moose, Aug (NYS); Cranberry L., Je-Jl, on birch (H); Rochester (M&W); Olcott, May-Je (Dt); Boston, Ap (Dnd); Rock City, Je (CU); Karner, Aug (NYS); West Pt. (Robn); **SI**, Mar, on cedar, Ap-May (NYS); **LI**: Central Pk., *Eng* (Sf).

## CONOTELUS Erichson

- 10035 **C. obscurus** Er. Wells, Pike, J1 (NYS); Rochester (M&W); Buffalo (Z&R); E. Aurora, J1 (Dnd); Portage, J1 (NYS); Ithaca, May 16, Good (H); Scotia, J1 (NYS); West Pt. (Robn); Mosholu, Bronx Pk. (Sf); **SI** (L&D).

## CARPOPHILUS Stephens

- 10040 **C. floralis** Er. **SI**, Je 14, on flower of prickly pear (L&D).  
 10042 **C. hemipterus** L. Rochester (M&W); Olcott, Je-J1 (Dt); E. Aurora, Mar (Dnd); Albany, Sep (NYS); NYC, in Turkish figs (Ds); **SI**, from dried figs (L&D); **LI**: Lawrence, J1 (NYS).  
 10043 **C. dimidiatus** Fab. Newport, May (NYS); Poughkeepsie, J1 (NYS).  
 10052 **C. niger** Say. Elizabethtown, Aug, Newport, Je (NYS); Cranberry L., Je-J1 (H); Rochester (M&W); Olcott, Je (Dt); Buffalo (Z&R); Rock City, Je (CU); Ithaca, Ap (NYS); Poughkeepsie (NYS); West Pt. (Robn); **SI**, May-J1 (L&D); **LI**: Cold Sp. Harb., Ap, Schott (Sf).  
 10056 **C. marginatus** Er. Poughkeepsie, Je (NYS); **LI**: Jamaica (Nic).  
 10057 **C. corticinus** Er. Olcott, May (Dt); Ringwood, May (Dt); **SI**, May, Aug (L&D); **LI**: Jamaica, Pears (Sf); Bellmore, May, Eng (Sf).  
 10058 **C. brachypterus** Say. Chazy L., L. Clear, Je (NYS); Newport, Pike, May (NYS); Buffalo (Z&R); Westfield, May (Not); Ithaca, May (CU); Albany (NYS); West Pt. (Robn); Mosholu (Sf); **SI**, Ap-May (L&D); **LI**: Central Pk., Ap, Eng (Sf); Yaphank, May, Eng (Sf).  
 10060 **C. antiquus** Melsh. **SI**, Je (L&D).

## SUBFAMILY NITIDULINAE

## NITIDULA Fabricius

- 10065 **N. bipunctata** L. Axton, Je (M&H); Newport, Denmark, Pike, May (NYS); Rochester (M&W); Buffalo (Z&R); Batavia, Je (Kngt); Nassau, May (NYS); West Pt. (Robn); **SI**, Je 23, in peaches not grown on **SI** (L&D).  
 10067 **N. rufipes** L. Axton, Je (M&H); Newport, May-Je (NYS); Cranberry L., J1, on carrion (H); Rochester (M&W); Olcott, Sep (Dt); Buffalo (Z&R); E. Aurora, Je (Dnd); Batavia, Je (Kngt); Montour Falls, Ap, carrion (H); Westfield, May (Not); Ithaca, Ap-May (CU); Karner, Poughkeepsie, Je (NYS); Peekskill (CU); West Pt. (Robn); **SI**, Ap-May, Sep (L&D); **LI**: Riverhead, Ap (NYS); Orient, May (NYS).  
 10068 **N. ziczac** Say. Rochester (M&W); Olcott, Je, Sep (Dt); **LI**: Amagansett, Aug, Eng (Sf).  
 — **N. carnaria** Schall. "NY" (Sf) (not in Lg Cat.); West Pt. (Robn).

## OMOSITA Erichson

- 10069 **O. colon** L. Axton, Je (M&H); Cranberry L., Je-J1, in carrion and in decaying fungi (H); Newport, Ilion, Oswego (NYS); Syracuse, Ap-May (H); Rochester (M&W); Buffalo (Z&R); Erie Co (Dnd);



Batavia, Je (Kngt); Pike (NYS); Westfield, May (Not); Ithaca, Ap-Sep (CU); McLean Bogs, Aug (Dt); Schoharie (Not); Clinton Hgts., Ap (NYS); Albany, Karner, Ap, Poughkeepsie, Je (NYS); West Pt. (Robn); Bangall, White Plains, *Eng* (Sf); NYC (NYS); **SI**, Mar-Sep, often on dead animals (L&D); **LI**: Jamaica, Rockaway Beach, North Beach, Long Beach, Forest Pk., Yaphank, Greenport, Mar-Aug (Sf); Orient, Mar, on rotten cabbage (Ds).

## EPUREA Erichson

- 10073 **E. helvola** Er. Gloversville, May (Alex-NYS); Rochester (M&W); Olcott, Jl (Dt); Buffalo (Z&R); Eden, Erie Co, Aug (Dnd); Ithaca (CU); Greenwood L., Je (Sf); **SI**, Aug-Sep (L&D); **LI**: Rockaway Beach, May (Sf); Yaphank, Oct, *Eng* (Sf).
- 10074 **E. rufa** Say. Buffalo (Z&R); West Pt. (Robn); **SI**, Mar, May, Dec, Ap 4, in sifting leaves in garden (L&D); **LI**: Jamaica, Rockaway Beach (Sf).
- 10077 **E. erichsoni** Reit. Cranberry L., Je, on maple blossoms (H); Olcott, Je (Dt); Rock City, Je (CU); Ithaca, May-Jl (Dt); West Pt., May, *Robn* (Sf); Little Pond, Orange Co, May, *Bish* (NYS); **LI**: Central Pk., Ap (Eng).
- 10078 **E. rufida** Melsh. Buffalo (Z&R); **SI**, Feb, Je (L&D).
- 10080 **E. corticina** Er. Wells (NYS); Rochester (M&W); Buffalo (Z&R); West Pt. (Robn).
- 10083 **E. avara** Rand. Axton, Je (M&H); Cranberry L., Je, on *Betula lutea* (H); Olcott, Je (Dt); Boston, Ap (Dnd).
- 10087 **E. truncatella** Mann. Cranberry L., Je-Jl, on maple and pine (H); Axton, Fourth L., Je, Albany, Ap (NYS); West Pt., Mar, *Robn* (Sf); **LI**: Queens, Ap (Sf).
- 10089 **E. ovata** Horn. Cranberry L., Jl-Aug (H); Olcott, Je-Jl, Dec-Jan (Dt); Mosholu, Sep (Sf).
- 10091 **E. peltoides** Horn. Olcott, Aug-Sep (Dt); Windsor, Je (Not); West Pt. (Robn).
- 10092 **E. depressa** Ill. Cayuga L., Je (CU); Ithaca, May (Dt).
- 10093 **E. labilis** Er. Axton, Je (M&H); Cranberry L., Je-Jl (H); Rochester (M&W); Olcott, Je-Jl (Dt); Westfield, May (Not); Windsor, Je (Not); **SI**, May (L&D).
- **E. ornatula** Not. NY, type locality.

## STELIDOTA Erichson

- 10098 **S. geminata** Say. Denmark, Sep (NYS); Rochester (M&W); Olcott, Je-Oct (Dt); Buffalo (Z&R); Ithaca, Aug-Sep (Dt); Menands, Sep, Middleburg, May (NYS); West Pt. (Robn); Nyack, Je (Ds); **SI**, Aug, on decaying pears (L&D); **LI**: North Beach, Rockaway Beach, Long Beach, Jamaica, May, *Shoe*, *Schott*, *Pears* (Sf).
- 10099 **S. octomaculata** Say. Johnstown (Alex-NYS); Wolcott, May, Cy (NYS); Ithaca, Sep (CU); Karner, Mar, *Bish* (Dt); West Pt. (Robn); **SI**, Je, trapped in molasses jar (L&D).

**PROMETOPIA** Erichson

- 10101 **P. sexmaculata** Say. Olcott, Je (Dt); Buffalo (Z&R); Ithaca, Je (Dt); West Pt. (Robn); Nyack, Je, Ramapo, May (Ds); **SI**, Ap-Oct, under bark of dead beech (L&D); **LI**: Jamaica, Woodside, Rockaway Beach, May-Je, *Eng* (Sf); Long Beach (AM).

**LOBIOPA** Erichson

- 10105 **L. undulata** Say. Rochester (M&W); Olcott, Aug-Sep, Ithaca, Jl (Dt); E. Aurora, May (Dnd); Windsor, Je (Not); West Pt. (Robn); **SI**, Je-Jl (L&D); **LI**: Flatbush, Jamaica, Aug (Sf); Greenport, *Eng* (Sf).

**SORONIA** Erichson

- 10106 **S. guttulata** Lec. Albany, Ap, *Yg* (NYS).

**PHENOLIA** Erichson

- 10109 **P. grossa** Fab. Newport, Je (NYS); Cranberry L., Jl (H); Dexter, Jl (NYS); Olcott, Je, Aug (Dt); Buffalo (Z&R); Ithaca, Jl-Sep (CU); McLean, May (CU); Rensselaer, Aug (NYS); West Pt. (Robn); White Plains, Mar, *Eng* (Sf); **SI**, Ap-Je (L&D); **LI**: Central Pk., Ap, *Eng* (Sf).

**AMPHOTIS** Erichson

- 10110 **A. ulkei** Lec. Ithaca, Ap (Dt); **LI**: Barton Hollow, in sifting, Aug (Flet-CU).

**AMPHICROSSUS** Erichson

- 10113 **A. ciliatus** Oliv. Ithaca, Je, Sep (CU); White Plains, Mar, *Eng* (Sf); **SI**, May (L&D); **LI**: Brooklyn, May (Dt); Jamaica, *Pears*, *Eng* (Sf).

**CYCHRAMUS** Kugelann

- 10115 **C. adustus** Er. Newport, *Yg* (NYS); Ithaca, Je, Sep (CU); Windsor, Je (Not); West Pt., *Robn* (Sf); **LI**: Yaphank, Ap (Sf).

**POCADIUS** Erichson

- 10117 **P. helvolus** Er. West Pt. (Robn); Mosholu (Sf); **SI** (L&D).

**CYLLODES** Erichson

- 10121 **C. biplagiatus** Lec. Buffalo (Z&R); Ithaca, Je (Dt); Windsor, Je (Not); West Pt., *Robn* (Sf). Occurs on a fungus on poplar.

**OXYCNEMUS** Erichson

- 10122 **O. histrina** Lec. E. Aurora, Nov (Dnd); West Pt. (Robn); **SI**, Aug (L&D); **LI**: Valley Stream, Yaphank, Jl (Sf); Melville, Oct, *Schott*, Riverhead, Aug, on *Phallus impudicus* (Ds).
- 10123 **O. nigripennis** Lec. **LI**: Yaphank, Jl (Sf).

## PALLODES Erichson

- 10125 *P. silaceus* Er. Mosholu, Bronx Pk. (AM); **SI**, Je–Nov, often in fungi (L&D); **LI**: Cold Sp. Harb., Amagansett, Orient, Aug, Oct (Sf).

## SUBFAMILY CRYPTARCHINAE

## CRYPTARCHA Shuckard

- 10129 *C. ampla* Er. Newport, Je, Plattsburg, Sep (NYS); Syracuse, May (H); Rochester (M&W); Olcott, Ap–Sep (Dt); Buffalo (Z&R); E. Aurora, May (Dnd); Batavia, Je–Sep (Kngt); Westfield, Jl (NYS); Windsor, Je (Not); Ithaca, May–Aug (NYS); West Pt. (Robn); **SI**, Ap–Jl, on sap (L&D); **LI**: Brooklyn, May (Dt); Jamaica, Flatbush, May (Sf); Yaphank, *Eng* (Sf).
- 10131 *C. strigata* Fab. Buffalo (Z&R); Peekskill, Sep (Sherm); West Pt. (Robn); **LI**: Yaphank, May, *Eng* (Sf).
- 10132 *C. concinna* Melsh. E. Aurora, May (Dnd); Boston, Ap, *Dnd* (Dt); Karner, Aug (NYS); **SI**, May–Je (L&D); **LI**: Jamaica, *Pears*, Yaphank, May, *Eng* (Sf).

## GLISCHROCHILUS Reitter

(*Ips* Fabricius)

- 10136 *G. obtusus* Say. **SI**, Aug 25, under bark of dying red maple (L&D).
- 10137 *G. fasciatus* Oliv. Cranberry L., Je–Jl, at sap on birch stump (H); Axton, Je (M&H); Big Moose, Jl, Newport, Wells, May–Jl (NYS); Gloversville, Je (NYS); Syracuse, May–Je (H); Olcott, Ap–Oct (Dt); Buffalo (Z&R); Erie Co, May–Sep (Dnd); Geneva, Avon, Ap, Je (Cls); Batavia, Je–Aug (Kngt); Castile, Sep, *Brad* (Flet); Binghamton, Ap (NYS); Ithaca, Ap–Sep (Dt); Interlaken, Ap (NYS); Montour Falls, May–Je (H); Windsor, Je (Not); Schenectady, Dec (Dt); Albany, Menands, Poughkeepsie, Jl (NYS); West Pt. (Robn); **SI**, Ap–Aug (L&D); **LI**: Flatbush, Lawrence (NYS); Rockaway Beach, Central Pk., Greenport, Ap–Aug, *Eng* (Sf).
- 10138 *G. sanguinolentus* Oliv. Newport, May, Saranac Inn, Jl (NYS); Cranberry L., Je–Jl, at birch sap and from *Pinus strobus* (H); Fourth L., Je (NYS); Olcott, Sep (Dt); Geneva, Ap (Cls); Buffalo (Z&R); E. Aurora, May–Je, Allegany Pk., Aug (Dnd); Batavia, Jl–Aug (Kngt); Schuyler, May (OS–NYS); Ithaca, May–Jl (Dt); Catskills, *Pears* (Sf); West Pt. (Robn); **SI**, Ap–Sep (L&D); **LI**: Jamaica, Central Pk., Ap, *Eng* (Sf).
- 10139 *G. confluentus* Say. Buffalo (Z&R); Boston, Ap (Dnd); West Pt., Mar, *Robn* (Ds); **LI**: Jamaica (Schott); Queens, Mar–Ap, *Eng* (Sf).
- 10140 *G. vittatus* Say. Newport, Ap (NYS).

## FAMILY RHIZOPHAGIDAE

## RHIZOPHAGUS Herbst

- 10144 *R. bipunctatus* Say. Cranberry L., Jl 2 (H); West Pt. (Robn); **SI** (L&D).
- 10147a *R. parallelcolis* Gyll. var. *robustus* Sf. **LI**: Woodside, Ap (Sf).

- 10149 *R. sculpturatus* Mann. Big Moose, J1 (NYS); Cranberry L., May-J1 (H); Rochester (M&W); Buffalo (Z&R); **SI**, Ap 24, *Woodr* (L&D).  
 10150 *R. dimidiatus* Mann. Newport (Yg-NYS); Cranberry L., Je-J1 (H, Dury).  
 10151 *R. approximatus* Lec. Buffalo (Lec).  
 10152 *R. remotus* Lec. Cranberry L., J1 (H), J1 (Dury); West Pt., Ap, *Robn* (Sf); **LI**: Queens, Hempstead, Bellmore, Ap-May (Sf).  
 10155 *R. brunneus* Horn. Fulton Chain, Je (NYS).  
 10157 *R. cylindricus* Lec. **LI**: Central Pk., Ap, *Eng* (Sf); Wyandanch (Sf).

## FAMILY MONOTOMIDAE

## SUBFAMILY MONOTOMINAE

## MONOTOMA Herbst

- 10158 *M. producta* Lec. Vic. NYC (AM); **SI**, Je, along shore or under bark of old logs; **LI**: Flatbush, Ap (Eng); Rockaway Beach, Je (Eng).  
 10159 *M. picipes* Hbst. Wells, Je (NYS); Syracuse, May, on herbage (H); Rochester (M&W); West Pt. (Robn); vic. NYC (AM); **SI** (L&D).  
 10163 *M. fulvipes* Melsh. **SI**, May (L&D).  
 10165 *M. americana* Aubé. Cranberry L., Je 28 (H), in decaying fungi.  
 10167 *M. parallela* Lec. NY (Lec).  
 10171 *M. longicollis* Gyll. Cranberry L., Je 25 (H), in decaying fungi.

## EUROPS Wollaston

- 10179 *E. pallipennis* Lec. Mosholu (Sf); vic. NYC (AM).

## BACTRIDIMUM LeConte

- 10183 *B. ephippigerum* Guér. Newport (NYS); Westfield, May (Not); **SI**, Ap (L&D); **LI**: Hempstead Plains, May (Eng).  
 10184 *B. erythropterum* Melsh. Buffalo (Z&R).  
 10185 *B. convexulum* Csy. (? *striolatum* Reit.). Newport (NYS); Olcott, May (Dt); Buffalo (Z&R), as *striatum*; West Pt. (Robn); **SI**, May, under bark of beech (L&D).  
 10186 *B. hudsoni* Csy. NY (Csy).

## PYCNOTOMINA Casey

- 10190 *P. cavicolle* Horn. Newport (NYS); Ringwood, Je (Dt); West Pt. (Robn); Bronx Pk. (Sf); **SI**, Aug (Shoe); **LI**: Jamaica, *Pears* (Sf).

## FAMILY CUCUJIDAE

## ORYZAEPHILUS Ganglbauer

- 10194 *O. surinamensis* L. SAW-TOOTHED GRAIN BEETLE. Newfane (Dt-CU); Castile, *Brad* (Flet); Ludlowville, Nov (CU); Ithaca, Sep (Dt); West Pt. (Robn); **SI**, in dried fruits at all seasons (L&D); **LI**: Flushing, Queens, *Eng* (Sf). Probably rather generally distributed in the State, infesting grains and dried fruits.

## SILVANUS Latreille

- 10198 **S. bidentatus** Fab. Newport (NYS); Johnstown, Oct (NYS); Cranberry L., Je 23 (H); Olcott, May-Oct (Dt); West Pt. (Robn); **SI**, Ap, Je, Aug (L&D); **LI**: Central Pk., Ap, *Eng* (Sf).
- 10199 **S. planatus** Germ. Cranberry L., Je 23 (H); Olcott, Ap, Jl (Dt); Buffalo (Z&R); Ithaca, Sep (Dt); Windsor, Je (Not); Van Cort. Pk., *Nic* (Sf); **SI**, May, under bark (L&D).
- 10200 **S. imbellis** Lec. Cranberry L., Je-Jl (H); Olcott, May, Oct (Dt); Buffalo, *Peabody* (Fris); E. Aurora, May (Dnd); **SI**, Feb 22, in sifting, *Woodr* (L&D), Jl, *Eng* (Sf); **LI**: Huntington, Sep, *Schott* (Sf).
- 10201 **S. gemellatus** Duv. (*quadricollis* Lec.). E. Aurora, Je (Dnd); Glens Falls, Oct (Felt); Westfield, May (Not); Schenectady, Je (NYS).

## CATHARTUS Reiche

- 10203 **C. cassiae** Reiche. "NY" (J. Hamilton).
- 10204 **C. advena** Waltl. Newport, Sep (NYS); Sanborn, Nov (CU, Lg); Olcott, Sep-Nov (Dt); Buffalo (Z&R); E. Aurora, Nov (Flet, Dnd); New Baltimore, Sep (NYS); **SI**, in dried pears from Calif. (L&D).
- 10207 **C. longulus** Blatch. Mosholu (Sf).

## NAUSIBIUS Redtenbacher

- 10209 **N. clavicornis** Kug. Mosholu (Sf); Van Cort. Pk., *Nic* (Sf).

## CATOGENUS Westwood

- 10211 **C. rufus** Fab. Gloversville, Aug, *Alex* (NYS); Buffalo (Z&R); E. Aurora, May, Nov (Dnd); Ithaca, Mar, Oct (CU); Albany, May (NYS); West Pt. (Robn); Peekskill (Sherm); **SI**, Je, on seashore (L&D); **LI**: Hempstead, May, Pinelawn, Ap, *Eng* (Sf); Yaphank, May, Sep, Wading R., Jl (Ds).
- 10211d **C. rufus** var. *parvus* Csy. Ithaca, Ap-May (Dt).

## CUCUJUS Fabricius

- 10221 **C. clavipes** Fab. Newport, Ap-Je (NYS); Oswego L., Nov (NYS); Olcott, May (Dt); Buffalo (Z&R); E. Aurora, Mar, Sep (Dnd); Avon (Cls); Pike, Ap-Je (NYS); Batavia, Sep (Kngt); Geneva, Mar-May, Dec (Cls); Westfield, May (Not); Ithaca, Mar-May (CU); Waterford, Jan (NYS); Albany, Nov, Shandakin, Je (NYS); West Pt. (Robn); White Plains (Fall, Sq); Bronx Pk. (Sf); **SI**, Jan-May, under bark (L&D); **LI**: Flushing (Ds, Sf, Eng).

## LAEMOPHLOEUS Laporte

- 10225 **L. biguttatus** Say. L. Placid, Aug (Vdyk); Newport, May (NYS); Cranberry L. (H), Jl (Dury); Olcott, May, Aug (Dt); Buffalo (Z&R); Batavia, Jl-Sep (Kngt); Pike, May (NYS); West Pt. (Robn); **SI**, Ap-May (L&D); **LI**: Central Pk., Ap; Hempstead, May, Yaphank, Sep (Eng).
- 10226 **L. fasciatus** Melsh. Newport, Mar-Apr (NYS); Cranberry L. (H); Olcott, May (Dt); Buffalo (Z&R); Batavia, Aug-Sep (Kngt); Pike, Mar-Apr (NYS); Westfield, May (Not); **SI**, Ap-May (L&D).



- 10236 **L. convexulus** Lec. Mt. Seward, 4500 ft., Je (M&H); Glens Falls, Oct (NYS); Olcott, May-Je (Dt); Buffalo (Z&R); Windsor, Je (Not); West Pt. (Robn); **SI**, May 6, under bark (L&D); **LI**: Central Pk., Ap-May, Hempstead, May, *Eng* (Sf).
- 10238 **L. sphaerops** Csy. Olcott, Ithaca, May (Dt).
- 10239 **L. adustus** Lec. Newport, Ap (NYS); Johnstown, Ap, *Alex* (NYS); Cranberry L., Je 30, in sweeping (H); Wanakena, Aug (Drk); Syracuse, May, on herbage (H); Olcott, Ap (Dt); Ithaca, May (Dt); Windsor, Je, Schoharie (Not); Nassau, May (NYS); West Pt. (Robn); Mosholu (Sf); **SI**, Je, under willow bark (L&D); **LI**: Central Pk., Ap (Eng); Orient, *Lath* (NYS).
- 10242 **L. modestus** Say. Buffalo (Z&R); **SI**, May (L&D).
- 10243 **L. apertus** Csy. Syracuse, Ap-May, under bark (H); Westfield, May (Not); Mosholu (Sf); **LI**: Wyandanch, Nov, *Schott* (Sf).
- 10245 **L. sobrinus** Csy. Westfield, May (Not).
- 10246 **L. liquidus** Csy. Newport, May (NYS); Castorland; Olcott, May-Je (Dt); Ithaca, Ap-Je (CU); Ilion, May (NYS); Buffalo (Z&R); **SI**, Ap-Je (L&D); **LI**: Wyandanch, Feb, *Schott* (Sf).
- 10247 **L. nitens** Lec. **LI**: Wyandanch, Oct-Nov, *Schott* (Sf).
- 10248 **L. punctatus** Lec. West Pt. (Robn).
- 10254 **L. angustulus** Lec. Peekskill, *Sherm* (Sf).
- 10258 **L. ferrugineus** Steph. Buffalo (Z&R).

## DENDROPHAGUS Schönherr

- 10272 **D. cygnaei** Mann. Green L., Jan (Dt); Buffalo (Mann-ANSP).

## BRONTES Fabricius

- 10273 **B. dubius** Fab. Keene Val., Je (Not); Newport, May (NYS); Cranberry L., Je 23 (H); Syracuse, May, under bark (H); Batavia, Aug-Sep (Kngt); Westfield, May (Not); Castile, *Brad* (Flet); E. Aurora, May-Je, Oct (Dnd); Buffalo (Z&R); Ithaca, Mar-Apr (CU); Albany, Nassau, May, Nov (NYS); Rensselaer, Jl (NYS); West Pt. (Robn); NYC (Martin); **LI**: Central Pk., Ap, Yaphank, Je, *Eng* (Sf).
- 10274 **B. debilis** Lec. Olcott, May-Je (Dt); E. Aurora, May, Sep (Dnd); Ithaca, Mar, Sep (Dt); Mosholu (Sf); Van Cort. Pk. (AM); **SI**, May-Je, Sep, under bark (L&D); **LI**: Rockaway, Je, Yaphank, May (Ds); Flatbush (AM).

## TELEPHANUS Erichson

- 10276 **T. velox** Hald. Syracuse, Ap-Je, under stones (H); Olcott, Ap-Sep (Dt); Lockport, Sep (NYS); Buffalo (Z&R); Castile, *Brad* (Flet); Oneida L., Aug (Drk); Ithaca, Mar-Aug (CU); Taughannock Falls, Aug (Vdyk); Montour Falls, Ap-Je, under stones (H); Albany, Rensselaer, Kenwood, May-Je, Nov (NYS); Peekskill, Mar (CU); West Pt. (Robn); White Plains, in sifting in autumn (Fall, Sq); Mosholu (Sf); **SI**, Mar-Oct (L&D); **LI**: Rockaway Beach, Ap, *Eng* (Sf); Flatbush (AM).

## PSAMMOECUS Latreille

- 10278 **P. desjardinsi** Guér. NYC (Sf).

## FAMILY EROTYLIDAE

## SUBFAMILY LANGURIINAE

## LANGURIA Latreille

- 10279 **L. bicolor** Fab. Buffalo (Z&R).  
 10282 **L. mozardi** Latr. CLOVER-STEM BORER. Syracuse, May-Je (H); Buffalo (Z&R); Pike (NYS); Rock City, Je (CU); Ithaca, Caroline, May-Jl, Sep (Dt-CU); Montour Falls, May-Je (H); Windsor, Je (Not); Karner, Je (NYS); Mosholu (Sf); New Baltimore, Albany (AM); Bangall, Sep (Sf); Poughkeepsie, Je (NYS); West Pt. (Robn); White Plains, May (Fall, Sq); **SI**, May-Je, often common on dandelion flowers (L&D); **LI**: Farmingdale, Je (CU); Pinelawn, Ap, Eng (Sf); Yaphank, May, Eng (Sf).  
 10284 **L. taedata** Lec. Near NYC (Lec); **SI**, Jl (L&D); **LI**: Rockaway Beach, Je, Eng (Sf).  
 10286 **L. angustata** Beauv. Buffalo (Z&R); Greenwood L., Dt (Sf); **SI**, Jan 19, under stones (L&D).  
 10286a **L. angustata** var. **uhleri** Horn. "NY" (Horn).  
 10287 **L. trifasciata** Say. **SI** (L&D).

## ACROPTEROXYS Gorham

- 10292 **A. gracilis** Newn. Rochester Jct., Je, *Leon* (CU); Buffalo (Z&R); E. Aurora, May, Jl (Dnd); Batavia, Je (Kngt); Windsor, Je (Not); Ithaca, Je-Jl, Sep (Dt-CU); White Plains, Je-Jl (Sq); Van Cort. Pk., Je (Sf); **SI**, Je-Jl (L&D).  
 10292a **A. gracilis** var. **inornata** Rand. Newport, Je (NYS); Buffalo (Z&R).  
 10293 **A. lecontei** Cr. Karner, Jl (NYS); Rensselaer, May (NYS); Clayville, Je, *Leon* (NYS).

## SUBFAMILY EROTYLINAE

## ISCHYRUS Lacordaire

- 10301 **I. quadripunctatus** Oliv. Buffalo (Z&R); Pike, May (NYS); Batavia, Aug (Kngt).

## TRITOMA Fabricius

- 10308 **T. sanguinipennis** Say. Newport (NYS); Johnstown, Sep (NYS); Olcott, Je, Aug (Dt); Buffalo (Z&R); E. Aurora, Je (Dnd); Pine L., Je (Ds); **SI** (L&D); **LI**: Orient, Nov (Ds).  
 10309 **T. pulcher** Say. Newport (NYS); Cranberry L., Je 11-Jl 6, in fungi (H); West Pt. (Robn); Olcott, Oct (Dt); Buffalo (Z&R); E. Aurora, Aug (Dnd); North Branch (Schaupp); **SI**, Aug, many in a fungus, Sep (L&D).  
 10309a **T. pulcher** var. **dimidiatus** Lac. Mosholu (Sf).  
 10310 **T. dissimulator** Cr. Wilmington, Jl (Ds).  
 10314 **T. angulata** Say. Pike, Ap-May (NYS); Albany, May, Jl (NYS); Mosholu (AM); **SI**, Jl, in a fungus (L&D); **LI**: Flatbush, Parkville (AM).

- 10317 **T. biguttata** Say. Poughkeepsie, Aug (NYS); West Pt. (Robn); **SI**, Aug (L&D); **LI**, Jl, *Eng* (Sf).  
 10319 **T. humeralis** Fab. Newport, Je (NYS); Buffalo (Z&R); Pike (NYS); Ithaca, Je, Aug (Dt); Corinth, Albany, Wemple, Jl (NYS); **SI** (L&D); **LI**: Yaphank, Je (Sf).  
 10323 **T. unicolor** Say. Johnstown, Sep (NYS); Buffalo (Z&R); Mosholu (Sf).

#### TRIPLAX Herbst

- 10328 **T. flavicollis** Lac. Buffalo (Z&R); E. Aurora, Aug (Dnd); Oneida L., Aug (Drk); Windsor, Je (Not); West Pt. (Ds); White Plains, Jl (Fall, Sq); Mosholu (Sf); **SI** (L&D).  
 10332 **T. macra** Lec. Newport (NYS); Buffalo (Z&R); West Pt. (Robn).  
 10334 **T. thoracica** Say. Cranberry L., Je 23-Aug (H); Olcott, Sep (Dt); Buffalo (Z&R); E. Aurora, Je-Oct (Dnd); Batavia, Sep (Kngt); Ithaca, Je (Dt); Windsor, Je (Not); Albany, Jl (NYS); West Pt. (Robn); White Plains, Jl (Fall, Sq); **SI**, Je-Jl (L&D).

#### DACNE Latreille

- 10342 **D. quadrimaculata** Say. Newport (NYS); Johnstown, Aug (NYS); Olcott, May (Dt); E. Aurora, Aug (Dnd); Buffalo (Z&R); Batavia, Jl-Aug, *Kngt* (AM); Albany, Jl, Ballston Spa, Je (NYS).

#### HYPODACNE LeConte

- 10346 **H. punctata** Lec. Buffalo (Z&R).

#### MEGALODACNE Crotch

- 10347 **M. fasciata** Fab. White L. (AM); Olcott, Sep (Dt); Buffalo (Z&R); E. Aurora, Je-Jl (Dnd); Batavia, Sep (Kngt); Ithaca, Jan, Ap (Dt-CU); Hudson Falls, Sep (NYS); Pine L., Je (Ds); West Pt. (Robn); **SI** (L&D); **LI**: Queens, Mar, *Schott* (Frost); Newtown, Je, *Eng* (Sf); Orient (Ds). Larvae occur in the fungus *Polyporus lucidus*, according to Weiss.  
 10348 **M. heros** Say. Newport, Je (NYS); Buffalo (Z&R); E. Aurora, May-Je (Dnd); Rock City (Ds); White L. (AM); Ithaca, May-Aug (Dt); Trenton Falls, Je (NYS); Albany, Je, *Bish* (NYS); Rensselaer, Aug (NYS); Rockland Co, Aug, *Martin* (Sf).

#### FAMILY DERODONTIDAE

##### LARICOBIVS Rosenhauer

- 10350 **L. erichsoni** Rosenh. Ithaca, May (Blaisdell, Dt); **SI**, Dec (L&D).

##### DERODONTUS LeConte

- 10353 **D. maculatus** Melsh. E. Aurora, Je (Dnd); Pike, Oct 11 (Frost); Johnstown, *Alex* (Yg-NY); Rochester (M&W); Buffalo (Z&R); Valhalla, Nov, *Schott* (Sf); **SI**, Nov, *Shoe* (L&D).

## FAMILY CRYPTOPHAGIDAE

## SUBFAMILY CRYPTOPHAGINAE

## DIPLOCOELUS Guérin-Ménéville

10356 *D. brunneus* Lec. **SI**, on dry fungus (L&D).

10357 *D. rudis* Lec. **LI**: Orient, Feb (NYS).

## TELMATOPHILUS Heer

10360 *T. americanus* Lec. Batavia, Jl (Kngt); **SI**, Je (L&D).

## LOBERUS LeConte

10361 *L. impressus* Lec. Buffalo (Rein).

## TOMARUS Erichson

10365 *T. pulchellus* Lec. Keene Val., Jl (NYS); Oneida L., Aug (Drk); Buffalo (Z&R); Montour Falls, Je (H); Westfield, May, Windsor, Je (Not); Karner, Jl, Nassau, May, Albany, Aug (NYS); Schoharie (Not); Rockland L., Aug (NYS); **SI**, Mar, in mouse nest, Ap, Sep-Nov (L&D); **LI**: Central Pk., Ap (Eng); Orient, *Lath* (NYS).

## ANTHEROPHAGUS Latreille

10370 *A. ochraceus* Melsh. Axton, Je (M&H), as *Atomaria*; E. Aurora, Jl (Flet, Dnd); Peekskill (Ds).

## CROSIMUS Casey

10376 *C. obesulus* Csy. "NY" (Csy); Johnstown, Aug (NYS).

10377 *C. hirtus* Csy. Westfield, May (Not).

## CRYPTOPHAGUS Herbst

10384 *C. acutangulus* Gyll. Newport (NYS); E. Aurora, Je (Dnd); Batavia, Jl (Kngt); Albany, Ap (NYS); West Pt. (Robn).

10385 *C. cellaris* Scop. Buffalo (Z&R); Albany, May, *Hartman* (NYS); **LI**: Orient, Feb (NYS).

10393 *C. cicatricosus* Csy. "NY" (Csy).

10398 *C. croceus* Zimm. Newport (NYS); Buffalo (Z&R); Menands, Feb (NYS); **SI**, Jl (L&D); **LI**: Orient Pt., May (NYS).

## HENOTICUS Thomson

10418 *H. serratus* Gyll. Cranberry L., Je, on maple blossoms (H); Sacandaga Pk., Aug (NYS); West Pt. (Robn).

## SUBFAMILY ATOMARIINAE

## CAENOSCELIS Thomson

- 10427 *C. macilenta* Csy. "NY" (Csy); Cranberry L., Je (H).  
 10428 *C. basalis* Csy. "NY" (Csy).

## ATOMARIA Stephens

- *A. lineola* Not. Schoharie (Not) as *Agathengis*; Windsor, Je (Not).  
 10436 ?*A. pumilio* Csy. Cranberry L., *Htly* (H).  
 — *A. parviceps* Not. Westfield, May (Not).

## ANCHICERA Thomson

- 10463 *A. ehippiata* Zimm. Axton, Je (M&H); Newport, Je (NYS); Cranberry L., Je (H); Buffalo (Z&R); Batavia, Jl (Kngt); Castile, *Brad* (Flet); Montour Falls, May-Je (H); Bridgeport, May-Je (H); Schoharie (Not); Windsor, Je (Not); Delmar, Mar (NYS); Clinton Hgts., Ap (NYS); West Pt. (Robn); **SI**, Ap, in sifting, *Nic* (L&D); **LI**: Orient, *Lath* (NYS).  
 10467 *A. distincta* Csy. **SI**, Ap, in sifting, *Nic* (L&D).  
 10471 *A. ochracea* Csy. Windsor, Je (Not).  
 10471b *A. ochracea* var. *pennsylvanica* Csy. Schoharie (Not); Westfield, May, Windsor, Je (Not).  
 10473 *A. gonodera* Csy. Cranberry L., Je (H).  
 10479 *A. oblongula* Csy. Mooers, Sep (Not); Schoharie (Not); Westfield, May, Windsor, Je (Not).  
 10481 *A. pusilla* Payk. Newport, May (NYS); Schoharie (Not); Windsor, Je (Not).  
 10483 *A. ovalis* Csy. Newport, May (NYS); Cranberry L., Je 25(H); Batavia, Jl-Sep (Kngt); Schoharie (Not); West Pt. (Robn).  
 — *A. ebenina* Csy. NY, type locality.  
 — *A. nebulosa* Csy. NY, type locality.

## EPHISTEMUS Stephens

- 10488 *E. apicalis* Lec. Newport (NYS); Ithaca, Je (NYS).

## FAMILY MYCETOPHAGIDAE

## MYCETOPHAGUS Hellwig

- 10490 *M. punctatus* Say. Newport, May (NYS); Ilion (NYS); Buffalo (Say); Pike, Jl (NYS); E. Aurora, Aug (Dnd); Batavia, Jl (Kngt); Albany, Jl (NYS); West Pt. (Ds); **SI**, Aug (L&D).  
 10491 *M. flexuosus* Say. Newport, May (NYS); Cranberry L., Je, in fungus *Collybia platyphylla* (H); Buffalo (Say); Pike, May, Aug (NYS); Johnstown, Sep (NYS); E. Aurora, Aug (Dnd); Batavia, Jl-Aug (Kngt); Ballston Spa, Je (NYS); **SI**, Ap, Je (L&D); West Pt., Ft. Montgomery, Je (Ds).



- 10493 **M. pictus** Csy. Windsor, Je (Not).  
 10501 **M. pluripunctatus** Lec. Syracuse, Ap, in bracket fungus (H); Newport (NYS); Buffalo (Z&R); **SI**, J1 4, in fungus on maple (L&D).  
 10503 **M. bipustulatus** Melsh. Newport (NYS); Nassau, Je (NYS); NYC, May (Ds); **LI**: Huntington, Dec, under log (Schott).  
 10507 **M. tenuifasciatus** Horn. **LI**: Rockaway Beach, May (Shoe); Yaphank, Sep (Sf).  
 10508 **M. obsoletus** Melsh. **LI**: Rockaway Beach, May (Shoe).

## TYPHAEA Curtis

- 10509 **T. fumata** L. Newport (NYS); Canton, Sep (NYS); Batavia, J1-Sep (Kngt); Castile, *Brad* (Flet); Buffalo (Z&R); Valley Falls, May (NYS); Cooperstown, Aug (NYS); West Pt. (Robn); **SI** (L&D); **LI**: Brooklyn (Sf).

## LITARGUS Erichson

- 10511 **L. tetraspilatus** Lec. Buffalo (Z&R); **SI**, Aug (L&D); **LI**: Pinelawn, Aug (Sf); Bellport, Aug (Nic); Riverhead, Ap, *Cy* (NYS).  
 10512 **L. sexpunctatus** Say. Olcott, Aug (Dt); Buffalo (Z&R); West Pt. (Robn); **SI**, Ap. (L&D); **LI**: Yaphank, J1 (Sf); Central Pk., Ap (Eng).  
 10516 **L. pallens** Csy. "NY" (Csy).  
 10514 **L. nebulosus** Lec. **SI**, Ap 27 (L&D); **LI**: Flatbush, Sep (Schott).  
 10517 **L. didesmus** Say. Albany, Ap (NYS); **SI**, May-Je, *Thompson* (L&D); **LI**: Bellport, J1-Aug (Nic); Yaphank, Ap (Eng).

FAMILY COLYDIIDAE <sup>47</sup>

## SYNCHITA Hellwig

- 10526 **S. laticollis** Lec. NY (Lec).  
 10527 **S. variegata** Lec. Mosholu (Sf). Described from southern Calif., but Schaeffer states that this single specimen, as well as some from Canada, agrees with the description of *variegata* but not with that of *parvula*.  
 10529 **S. parvula** Guér. Ithaca, Je (Chitt).  
 10530 **S. fuliginosa** Melsh. Buffalo (Z&R); West Pt. (Robn); Bronx Pk. (Sf); **SI**, Je, in old fungus (L&D); **LI**: Rockaway Beach, Je, *Eng* (Sf); Long Beach, Je, *Eng* (Sf).

## EUCICONES Sharp

- 10533 **E. marginalis** Melsh. NYC (Julich).

## BITOMA Herbst

- 10539 **B. pinicola** Schffr. **LI**: Central Pk., Sep, Rockaway Beach, May (Eng); Wyandanch, Je, *Schott* (Sf).  
 10541 **B. quadriguttata** Say. Pike, Newport (NYS); Buffalo (Z&R); **SI** (L&D); **LI**: Yaphank, Nov, *Eng* (Sf).

<sup>47</sup> Charles Schaeffer has gone over the list for this family, and has supplied many records and made certain changes in synonymy.

## COXELUS Latreille

- 10551 *C. guttulatus* Lec. Buffalo (Z&R); **LI**: Central Pk., Ap, *Eng* (Sf).

## LASCONOTUS Erichson

- 10558 *L. borealis* Horn. Cranberry L., Je-Jl (H).

## AULONIUM Erichson

- 10576 *A. parallelopipedum* Say. **SI**, under elm bark (L&D).

## COLYDIUM Fabricius

- 10580 *C. lineola* Say. Cranberry L. (H); Buffalo (Z&R); Bronx Pk. (Sf); **SI**, Je (L&D).

## XUTHIA Pascoe

- *X. brevipes* Shp. **LI**: Astoria, Aug, introduced in mahogany logs, *Sz* (Felt-Jour. N. Y. Ent. Soc. 21: 275, 1913).

## BOTHRIDERES Erichson

- 10592 *B. geminatus* Say. Syracuse, Je (Drk); Buffalo (Z&R); Genesee Co., Ap (NYS); Mosholu, May, in hickory (Ds).

## CERYLON Latreille

- 10598 *C. castaneum* Say. Fourth L., Je (NYS); Newport (NYS); Cranberry L., Je-Jl (H); Syracuse, May, under bark (H); Westfield, May, Windsor, Je (Not); Buffalo (Z&R); Schoharie (Not); Albany, Nassau, Kinderhook (NYS); West Pt. (Robn); **SI**, Ap, Nov (Shoe, Woodr), May, Oct, under bark (L&D); **LI**: Queens, Sep (Schott); Flatbush, Ap, *Eng* (Sf).
- 10601 *C. sticticum* Csy. **SI**, Jl (L&D); Catskills, *Pears* (Sf).

## PHILOTHERMUS Aubé

- 10604 *P. glabriculus* Lec. Newport (NYS); Montour Falls, under bark, Ap (H); Westfield, May, Windsor, Je (Not); Delmar, Karner, Ap (NYS); West Pt. (Robn); **SI**, Ap-May (L&D); **LI**: Pinelawn, Central Pk., Ap, *Eng* (Sf); Southold, Ap (NYS); Orient, *Lath* (NYS).

FAMILY LATHRIDIIDAE<sup>48</sup>

## HOLOPARAMECUS Curtis

- 10614 *H. kunzei* Aubé. NY (Fall).

<sup>48</sup> H. C. Fall has read the manuscript for this family, and has suggested one or two changes in synonymy and added some records.

## LATHRIDIUS Herbst

- 10627 *L. breviclavus* Fall. **LI** (Fall).  
 10631 *L. liratus* Lec. Newport, May-Je (NYS); Cranberry L., Je (H); Olcott, Mar-Jl (Dt); Schoharie (Not); Johnstown, Sep (NYS); McLean, Je (Flet); Ithaca, Mar-Jl (Dt); Windsor, Je (Not); West Pt. (Robn); **SI**, Jl (L&D).

## CONINOMUS Thomson

- 10633 *C. constrictus* Gyll. Cranberry L., Je 25, in decaying fungi (H).  
 10635 *C. nodifer* Westw. Olcott, Je (Dt).

## ENICMUS Thomson

- 10639 *E. hirtus* Gyll. NY (Fall).  
 10642 *E. minutus* L. Newport, May-Je (NYS); Speculator, Je (NYS); Buffalo (Z&R); Rochester (M&W).  
 10646 *E. aterrimus* Mots. "NY" (Fall); Peekskill, Je (Sherm), as *opaculus*.  
 10656 *E. tenuicornis* L. Otsego (Fall); Olcott, Je (Dt).

## CARTODERE Thomson

- 10659 *C. ruficollis* Marsh. Albany, Ap, Jl (NYS); Nassau, Ap (NYS); Blauvelt, Aug (NYS).  
 10662 *C. argus* Reit. Schoharie (Not).  
 10664 *C. filum* Aubé. NY (Fall); Ithaca, Sep (Dt).  
 10665 *C. elegans* Aubé. NYC, Oct, *Woodr* (Not).

## ADISTEMIA Fall

- 10666 *A. watsoni* Woll. NYC, infesting boxes of moldy beetles in collection of L. B. Woodruff, Oct 5, 1920 (Fall).

## CORTICARIA Marsham

- 10669 *C. pubescens* Gyll. NY (Fall); Newport, May-Je (NYS).  
 10679 *C. serricollis* Lec. Peekskill, Jan, *Sherm* (Sz).  
 10685 *C. serrata* Payk. Buffalo (Z&R); Windsor, Je (Not).  
 10689 *C. dentigera* Lec. Cranberry L., in fungi (H).  
 10693 *C. elongata* Gyll. Rochester (M&W); Schoharie (Not); **SI**, Oct 9, in sifting (L&D).  
 10694 *C. ferruginea* Marsh. "NY" (Lec), as *obtusa*; Cranberry L., Je 29 (H); Buffalo (Z&R); West Pt. (Robn).

## MELANOPHTHALMA Motschulsky

- 10696 *M. picta* Lec. Mooers, Sep (Not); Schoharie (Not); Westfield, May, Windsor, Je (Not); Olcott, Feb, Ap (Dt); West Pt. (Robn).  
 10699 *M. villosa* Zimm. Mooers, Sep (Not); Cranberry L., Je-Jl (H); Westfield, May, Windsor, Je (Not).

- 10701 **M. distinguenda** Com. Mooers, Sep (Not); Axton, Je (M&H); Cranberry L., Je (H); Newport, May-Je (NYS); Syracuse, May-Oct (H); Rochester (M&W); Montour Falls, May-Oct (H); Westfield, May (Not); Schoharie, Windsor (Not); Bridgeport, May-Oct (H); Ithaca, Ringwood, McLean, Feb-Nov (Dt); **LI**: Orient, Ap (NYS).
- 10703 **M. pumila** Lec. Cranberry L., Je-Jl (H); Buffalo (Z&R); Schoharie (Not); West Pt. (Robn); **SI**, *Joutel* (L&D); **LI**: Central Pk., Ap (Eng); Rockaway Beach (AM, Lg); Coney I. (Lg).
- 10705 **M. gibbosa** Hbst. Cranberry L., Je-Jl (H); Syracuse (H); Bridgeport (H).
- 10711 **M. longipennis** Lec. Montour Falls, Je (H); Olcott, Je (Dt); Westfield, May, Windsor, Je (Not).
- 10712 **M. americana** Mann. Johnstown, Sep (NYS); Olcott, Feb, Je-Jl (Dt); Westfield, May (Not); Ithaca, Feb, Je-Jl (Dt); Catskills (Lg); **SI**, Je (L&D); **LI**: Coney I. (Lg).
- 10713 **M. cavicollis** Mann. Cranberry L., Je-Jl (H); Syracuse, May, queried (H); Olcott, Feb-Oct (Dt); Buffalo (Z&R); Ithaca, Saratoga, Feb-Oct (Dt); Albany, Ap (NYS); Windsor, Je (Not); West Pt. (Robn); **SI**, Feb 22 (Woodr), Sep (L&D).

#### FAMILY MYCETAEIDAE

##### MYCETAEA Stephens

- 10716 **M. hirta** Marsh. Buffalo (Z&R); **SI**, Mar, May, in fungus on logs and stumps (L&D); **LI**: Wyandanch, Jl, *Schott* (Sf).

##### RHANIS LeConte

- 10717 **R. unicolor** Zieg1. Newport (NYS); Olcott, Sep (Dt); Buffalo (Z&R); **SI**, Ap, Je, Jl, Nov (L&D); **LI**: Yaphank, Je, *Eng* (Sf).

##### PHYMAPHORA Newman

- 10718 **P. pulchella** Newn. Newport, May (NYS); Cranberry L., Jl 6 (H); Olcott Sep (Dt); Trenton Falls (Newn); Buffalo (Z&R); Johnstown, Oct (NYS); Ithaca, Ap 30 (CU); North Branch (Schaupp); Bronx Pk. (Sf).

#### FAMILY ENDOMYCHIDAE

##### SUBFAMILY ENDOMYCHINAE

##### LYCOPERDINA Latreille

- 10720 **L. ferruginea** Lec. Keene Hgts., Je (Not); Olcott, Oct (Dt); Buffalo (Z&R); Pike, Sep (NYS); E. Aurora, Cortland Co, Je-Sep (Dnd); Ithaca, Ap 14 (CU); White L., *Zab* (AM); W. Hebron (Lg); West Pt. (Robn); Mosholu, Nov (Ang); **SI**, Je, Dec (L&D); **LI**: Central Pk., May, *Eng* (Sf); Yaphank, Je, *Eng* (Sf); Flatbush, *Zab* (AM). In puffball fungus.

## APHORISTA Gorham

- 10726 **A. vittata** Fab. Newport (NYS); North Cr., Je (NYS); Buffalo (Z&R); Erie Co, May, Sep (Dnd); Batavia, Ap (Kngt); Castile, *Brad* (Flet); Ithaca, May 3 (CU); Meredith, May, *Cy* (NYS); W. Hebron (Lg); Middlesex, Aug 13 (Cls); **SI** (L&D); **LI**: Wyandanch, Ap (Ds); Central Pk., Ap, Pinelawn, Yaphank, May, *Eng* (Sf); Orient Pt., Ap, Sep (NYS).

## MYCETINA Mulsant

- 10727 **M. perpulchra** Newm. Newport, Je (NYS); Cranberry L., Je-Jl (H); Gloversville, Ap (NYS); Olcott, Sep (Dt); Wolcott, May, *Cy* (NYS); Buffalo (Z&R); E. Aurora, Je (Dnd); Alpine, Nov (NYS); Ithaca, Je (Dt); Trenton Falls (Newm); North Branch (Schaupp); Voorheesville, May (NYS); West Pt. (Robn).
- 10730 **M. testacea** Ziegl. Newport (NYS); Ithaca, Mar (Dt); W. Hebron (Ds Coll).

## STENOTARSUS Party

- 10739 **S. hispidus** Hbst. **LI**: Huntington, Aug 22, *Schott* (Frost).

## ANAMORPHUS LeConte

- **A. sp.** **LI**: Yaphank, Je (Sf).

## RHYMBUS Gerstaecker

- 10752 **R. pilosus** Csy. Bluff Pt., L. Champlain (Csy).

## ENDOMYCHUS Panzer

- 10753 **E. biguttatus** Say. Elizabethtown, Pike, Newport (NYS); Long L. (Ds Coll); Cranberry L., Jl 20 (H); Buffalo (Z&R); Batavia, Je-Sep (Kngt); Geneva, Mar (Cls); Cattaraugus Co (Ds Coll); Schuyler, Mar (NYS); Ithaca, Jl 30, *Ynasa* (Vdyk); L. George, Aug, *Zab* (AM); Phoenicia, Aug, *MCV* (NYS); West Pt. (Robn); Ramapo Mts. (AM); White Plains (Fall, Sq); **SI**, Jan-Oct, under beech bark (L&D); **LI**: Riverdale, Oct, *Eng* (Sf).

## FAMILY PHALACRIDAE

## PHALACRUS Paykull

- 10772 **P. pumilio** Lec. Axton, Je (M&H); Syracuse, May (H); **SI**, May-Je, on seashore (L&D).
- 10773 **P. politus** Melsh. Axton, Je (M&H); Syracuse, May (H); Buffalo (Z&R); L. George, Aug (Not-AM); Albany, Jl (NYS); White L., Sep (Not-AM); **SI**, Je (L&D); **LI**: Rockaway Beach, Je (Ds).

## OLIBRUS Erichson

- 10776 **O. vittatus** Lec. NY (Csy).
- 10777 **O. lecontei** Csy. Buffalo (Z&R).
- 10779 **O. abstinens** Csy. **LI** (Csy).



- 10780 *O. semistriatus* Lec. Juanita I., L. George, Jl, *Bish* (NYS); **SI**, Aug (L&D).  
 10782 *O. frustratus* Csy. NY (Lg).  
 10783 *O. bullatus* Csy. (*sternalis* Csy.). **LI** (Lg).  
 10784 *O. impotens* Csy. NY (Lg Cat.).  
 10785 *O. neglectus* Csy. NY (Csy).  
 10786 *O. pallipes* Say. NY (Csy); **SI** (L&D).

#### ACYLOMUS Sharp

- 10813 *A. ergoti* Csy. Axton, Je (M&H); Cranberry L., Je (H); Syracuse, Montour Falls, Bridgeport, May-Je (H); **SI**, May (L&D).

#### STILBUS Seidlitz

- 10828 *S. pallidus* Csy. "NY" (Lg).  
 10829 *S. apicalis* Melsh. Newport, May (Yg); Cranberry L., Je-Jl (H); Oswego, Jl, *Bks* (NYS); Syracuse, Ap, Je (H); Buffalo (Z&R); Oswego, Jl (Yg); Batavia, Je-Aug (Kngt); Montour Falls, May-Je (H); Westfield, May (Not); West Pt. (Robn); Gloversville, Ap (NYS); White Plains, Aug (Frost, Sq); **SI**, May, Aug (L&D); **LI**: Orient, May (NYS).  
 10831 *S. probatus* Csy. "NY" (Lg).  
 10834 *S. ludibundus* Csy. "NY" (Csy).  
 10836 *S. finitimus* Csy. NY (Csy).  
 10841 *S. obtusus* Lec. Mooers, Sep (Not); Schoharie (Not). Described from southern Calif.  
 10844 *S. nitidus* Melsh. Gloversville, Sep (NYS); Syracuse, Ap, Je, under stones (H); Buffalo (Z&R); Pike, Ap (NYS); Montour Falls, Ap, Je (H); **SI**, Ap (L&D); **LI** (Csy).  
 10849 *S. thoracicus* Csy. "NY" (Csy).  
 10851 *S. quadrisetosus* Csy. NY (Lg).  
 ——— *S. atomarius* L. Schoharie (Not); Windsor, Je (Not).

### FAMILY COCCINELLIDAE

#### SUBFAMILY COCCINELLINAE

#### HYPERASPIS Chevrolat

- 10874 *H. lateralis* Muls. Buffalo (Z&R).  
 10876 *H. bigeminata* Rand. Cranberry L., *Htly* (H); Mt. Seward, Je (M&H); Mt. Whiteface, Jl, *Shoe* (Sf); Mt. Marcy, Jl, *Wat* (Lg); Buffalo (Z&R).  
 10879 *H. signata* Oliv. Mt. Marcy, Jl (NYS); Syracuse, May (H); Olcott, May-Jl (Dt); E. Aurora, May-Jl (Dnd); Westfield, May (Not); Ithaca, May-Aug (CU); Albany, Sep (NYS); Karner (NYS); West Pt. (Robn); Ludlow, *Thompson* (Lg); **SI**, May-Aug (L&D); **LI**: Rockaway Beach, *Eng* (Sf); Yaphank, May, *Pollard* (Lg).  
*H. binotata* Say. Buffalo (Lg); West Pt. (Robn); Ludlow (Lg); Mosholu (Lg); **LI**: Yaphank, May, *Pollard* (Lg).

- 10880 *H. proba* Say. Buffalo (Z&R); Ithaca, Jl-Aug (CU); Montour Falls, Je (H); West Pt. (Robn); **SI**, Aug-Sep (L&D); **LI**: Yaphank, Je, Amagansett, Aug, *Eng* (Sf); Orient, *Lath* (NYS).
- 10908 *H. fimbriolata* Melsh. Minerva, Jl 20, 1925, on Solidago (Frost); White Plains, Sep (Sq); **SI**, two at Ward's Pt., Je 5 (L&D); **LI**: Rockaway Beach, Long Beach, Yaphank, May, Jl, *Eng* (Sf).
- 10914 *H. serena* Csy. Mt. Whiteface, Sep (Lg); Mosholu, Je, Aug (Lg).
- 10921 *H. disconotata* Muls. Cascade L., Aug (Lg).
- 10922 *H. troglodytes* Muls. **SI**, Jl (L&D).
- 10923 *H. lugubris* Rand. Ithaca, May-Aug (CU).
- 10930 *H. undulata* Say. Wilmington, Jl, Cascade L., Aug (Lg); Newport, May (NYS); Gloversville, Johnstown, Ap-May (NYS); Oswego, May (NYS); Syracuse, Ap-May, under stones (H); Olcott, Je (Dt); Buffalo (Z&R); Ithaca, Ap-Jl (CU); West Pt., Jl, *Eng* (Sf); Croton-on-Hudson, Je, *Ang* (Lg); **LI**: Rockaway Beach, Long Beach, Yaphank, Ap-Jl, *Eng* (Sf); Orient Pt.

## BRACHYACANTHA Chevrolat

- 10967 *B. dentipes* Fab. NY (NYS).
- 10972 *B. ursina* Fab. Newport, Je (NYS); New Russia, Aug (Brad-CU); Cranberry L., Jl (Drk); Otto, Jl (CU); Pike, Je (NYS); Erie Co, May-Jl (Dnd); Westfield, May (Not); Ithaca, Je-Aug (CU); Schoharie (Not); Albany, Je (NYS); Nassau, Jl (NYS); Poughkeepsie, Je (NYS); Bangall, Sep (Eng); Peekskill (Sherm); White Plains (Sq); **SI**, May-Jl, common (L&D); **LI**: Flushing, Bayshore, Yaphank (Sf).
- 10972a *B. ursina* var. *congruens* Csy. Ithaca (Pack).
- 10974 *B. felina* Fab. var. *decempustulata* Melsh. Ogdensburg, Jl (NYS); Newport, Je (NYS); Castile, *Brad* (Flet); E. Aurora, Cortland Co, Je-Jl (Dnd); Olcott, Ithaca (Dt); Schoharie (Not); Karner, Je (NYS); Ellenville, Sep-Nov, *Nic* (Frost); West Pt. (Robn); White Plains (Sq); **SI**, Je-Jl (L&D); **LI**: Yaphank, Jl (Eng).
- 10977 *B. indubitabilis* Cr. Ft. Montgomery, Jl (Ds); **LI**: Massapequa, Jl, *Shoe* (Sf).
- 10979 *B. quadripunctata* Melsh. Pike, Je (NYS); Ithaca, Aug (CU); Poughkeepsie, Je (NYS); Mosholu (Sf); **LI**: Yaphank, Oct, *Eng* (Sf).
- 10979b *B. quadripunctata* var. *flavifrons* Muls. W. Hebron, Jl (Lg).

## MICROWEISEA Cockerell

- 10988 *M. marginata* Lec. Ithaca, Ap (Pettit, Horn).
- 10989 *M. misella* Lec. Cranberry L., Je-Jl (H); Ithaca, May, Aug (Dt); Albany, Sep (Felt); Germantown (NYS); West Pt. (Robn); Orange Co (Felt); Mosholu (Sf); **SI**, Jl-Aug (L&D).

## STETHORUS Weise

- 10998 *S. punctum* Lec. Cranberry L., Je (H); Olcott (Dt); West Pt. (Robn); **SI**, Aug-Sep, many specimens (L&D).

## SCYMNUS Kugelann

- 11011a *S. creperus* Muls. var. *fraternus* Lec. Ithaca (Pack); Montour Falls, Je (H), with query; Ithaca, Aug (Dt); Schoharie (Not).  
 11012 *S. brullei* Muls. NY (Horn).  
 11013 *S. haemorrhous* Lec. Buffalo (Z&R); Ludlow, *Thompson* (Lg); **SI** (L&D).  
 11016 *S. chromopyga* Csy. **SI**, May-Aug (L&D).  
 11018 *S. cervicalis* Melsh. West Pt. (Robn); **SI**, Sep (L&D).  
 11024 *S. caudalis* Lec. Ithaca (Pack).  
 11028 *S. collaris* Melsh. Cranberry L., Jl, on Sambucus blossoms (H); Syracuse, May-Je (H); Buffalo (Z&R); Montour Falls, May-Je (H); Ithaca (Pack); **SI**, May-Aug (L&D); **LI**: Yaphank, May, *Pollard* (Lg).  
 11034 *S. indutus* Csy. Ithaca, Je (Dt).  
 11035 *S. puncticollis* Lec. Cranberry L., Je-Jl, on Spiraea and Prunus (H); Montour Falls, Je, queried (H); Schoharie (Not); West Pt. (Robn).  
 11036 *S. agricola* Csy. Ithaca, May (Dt).  
 11055 *S. tenebrosus* Muls. Axton, Je (M&H); Cranberry L., *Hily* (H); Ithaca, May-Sep (Dt); Schoharie (Not); West Pt. (Robn); **SI**, Je-Aug (L&D).  
 11060 *S. lacustris* Lec. Buffalo (Z&R).  
 11077 *S. punctata* Melsh. Castile, *Brad* (Flet); Ithaca, May (Dt); **SI** (Lg).  
 11079 *S. nanus* Lec. Cranberry L., Je, on willow (H); West Pt. (Robn).  
 11082 *S. americanus* Muls. Cranberry L., Je (H); Syracuse (H); Olcott, Jl (Dt); Buffalo (Z&R); Ithaca, Jl (Dt); West Pt. (Robn); Ludlow, *Thompson* (Lg); **SI**, May-Aug (L&D).  
 11093 *S. flavifrons* Melsh. NY (Lec).  
 11093a *S. flavifrons* var. *bioculatus* Muls. Buffalo (Z&R); **SI** (L&D).  
 11094 *S. ornatus* Lec. McLean, May, June (Flet).  
 11115 *S. terminatus* Say. Buffalo (Z&R); Bronxville, Jl (Woodr).

## DELPHASTUS Casey

- 11143 *D. pusillus* Lec. Cranberry L., *Hily* (H); Montour Falls, Je (H); Ithaca, Je (Pack); Woodhull L., Aug, *Love* (Lg); Van Cort. Pk., Aug (Sf).

## COCCIDULA Kugelann

- 11147 *C. lepida* Lec. Ashland, Aug 4 (Frost); **LI**: Yaphank, Jl, *Eng* (Sf).

## PSYLLOBORA Chevrolat

- 11150 *P. viginti-maculata* Say. Mooers, Sep (Not); Wilmington, Aug (Dt); Newport, Je (NYS); Keene Val., Sep, *Eng* (Sf); Cranberry L., Je (H); Syracuse, Ap-May, under log (H); Olcott, Mar-Sep (Dt); Buffalo (Z&R); Batavia, Je-Aug (Kngt); Westfield, May (Not); Ithaca, May-Oct (CU); Ilion, May (NYS); Schoharie (Not); Nassau, May (NYS); West Pt. (Robn); White Plains (Sq); **SI**, Jl-Oct (L&D); **LI**: Jamaica, Aug, Rockaway Beach, Je, *Eng* (Sf); Orient, *Lath* (NYS).

## ANISOSTICTA Chevrolat

- 11154 **A. bitriangularis** Say. Saranac, Sep (Ds, Sf); Wanakena, Aug (Drk); Cranberry L., Je (H); E. Aurora, Ap (Dnd); Montour Falls, Je (H); Batavia, Je-Aug (Kngt); Ithaca, May-Je (Dt, Pack); McLean Bogs, May, Aug (CU); W. Hebron, Je (Lg); West Pt. (Robn); White Plains, May (Lg); **SI**, in swampy places (L&D).

## NAEMIA Mulsant

- 11155 **N. seriata** Melsh. **SI**, May, Aug-Sep, often on *Solidago sempervirens* (L&D); **LI**: Aqueduct, Forest Pk., Rockaway Beach, Je-Sep (Sf); Orient, *Lath* (NYS).

## CERATOMEGILLA Crotch

- 11158 **C. fuscilabris** Muls. (*Megilla maculata* auct. not DeG.). Syracuse, Ap-Je (H); Oswego Falls, Aug (NYS); Olcott (Dt); Buffalo (Z&R); Pike, Mar (NYS); Lockport, May (Cy); Batavia, Je-Aug (Kngt); Castile, Jl, *Brad* (Flet); Montour Falls, Ap-Je (H); Elmira, Aug (Cy); Ithaca, Mar-Sep (CU); Windsor, Je (Not); Albany, Karner, Aug (NYS); Nassau, Ap (Sherm); West Pt. (Robn); White Plains (Sq); Pine I., Je, *Pollard* (Lg); **SI**, Je-Oct (L&D); **LI**: Hempstead Plains, Central Pk., Rockaway Beach, Ap-Je (Sf); Orient, *Lath* (NYS). Often hibernates in numbers under stones (Lg).

## HIPPODAMIA Dejean

- 11162 **H. tredecimpunctata** L. Essex Co, Jl (NYS); Cranberry L., Jl-Aug (Drk); Olcott, May (Dt); Buffalo (Z&R); Erie Co, Jl, Nov (Dnd); Batavia, Jl-Sep (Kngt); Westfield, May (Not); Lyons Falls, Aug (Mat); Ithaca, Je-Oct (CU); West Pt. (Robn); Croton-on-Hudson (Ang); White Plains (Sq); **SI**, Jl-Aug (L&D); **LI**: Rockaway Beach, Ap, Montauk Pt., *Eng* (Sf).
- 11163 **H. parenthesis** Say. Axton, Je (M&H); Wilmington, Aug (Dt); Wanakena, Aug (Drk); Cranberry L., Jl (H); Newport, Je (NYS); Oswego, Jl (NYS); Syracuse, Ap-Oct 6 (H); Olcott, Mar-Aug (Dt); Buffalo (Z&R); Castile, *Brad* (Flet); E. Aurora, May-Aug (Dnd); Pike, Jl (NYS); Westfield, May (Not); Ithaca, Ap-Sep, Dec (CU); McLean Bogs, Jl (Dt); Albany, May (NYS); West Pt. (Robn); Peekskill (Sherm); Clinton Cr., Jl (NYS); White Plains (Sq); Croton-on-Hudson (Ang); **SI**, May-Aug (L&D); **LI**: Rockaway Beach, Yaphank, Je-Jl, *Eng* (Sf); Orient, *Lath* (NYS).
- 11171 **H. glacialis** Fab. Buffalo (Z&R); Elka Pk., Aug (Drk); Westfield, May (Not); Ithaca (Pack); Nassau, Ap (NYS); Poughkeepsie, Je (NYS); Peekskill (Sherm); West Pt. (Robn); White Plains (Sq); **SI**, Je-Sep (L&D); **LI**: Rockaway Beach, Oct (L&D); Jamaica, Pine-lawn, *Eng* (Sf); Orient Pt., Je (NYS).
- 11172 **H. quindecim-maculata** Muls. Batavia, Jl-Aug (Kngt); Portage, Aug (Kngt); McLean, May (CU).
- 11173 **H. convergens** Guér. Batavia, Jl (Kngt); Port Kent (Lint); Pike (NYS); Buffalo (NYS); Woodlawn Beach, L. Erie, Jl (Dnd); Windom, Oct (Dt); Castile, *Brad* (Flet); Ithaca, May-Sep (CU);

Coeymans (Lint); Peekskill (Sherm); West Pt. (Robn); White Plains (Sq); **SI**, Je-Nov, common (L&D); **LI**: Rockaway, May, *Pollard* (Lg); Orient, *Lath* (NYS).

- 11175 **H. quinquesignata** Kby. Adirondacks (Lg); Cranberry L., Jl (H); L. Placid, Jl (NYS); Syracuse, Montour Falls, May-Je (H).

#### COCCINELLA Linnaeus

- 11181 **C. perplexa** Muls. Axton, Je (M&H); Wilmington, Aug (Dt); Newport, May (NYS); Cranberry L., Je-Jl (H); Syracuse, Ap-Je (H); Buffalo (Z&R); Batavia, Jl-Aug, as *trifasciata* L. (Kngt); Erie Co, May-Aug (Dnd); Montour Falls, Ap-Je (H); Ithaca, McLean, May (Dt); Schoharie, as *trifasciata* L. (Not); Karner, May (NYS); West Pt. (Robn); White Plains, *Pollard* (Lg); **SI**, May-Aug, often plentiful on white birches infested with plant lice (L&D); **LI**: Central Pk., Ap, *Eng* (Sf); Rockaway, May, *Pollard* (Lg); Orient, *Lath* (NYS).
- 11183 **C. tricuspidis** Kby. Chateaugay L., Aug-Sep, Cascade L., Aug (Lg); Cranberry L., Jl (H).
- 11184 **C. novemnotata** Hbst. Wilmington (Dt); Denmark, May (NYS); Cranberry L., Je-Jl (H); Gloversville, Aug (NYS); Syracuse, Ap-Je (H); Rochester, Aug (Cy); Olcott, Windom (Dt); Buffalo (Z&R); E. Aurora (Dnd); Pike, Ap (NYS); Batavia, Je-Aug (Kngt); Castile, Jl, *Brad* (Flet); Montour Falls, Ap-Je (H); Westfield, May (Not); Ithaca, May-Sep (NYS, CU); McLean, May (CU); Dansville, Sep (CU); Schoharie (Not); Washington Co (Ashton); Albany, Nassau, May, Jl (NYS); Karner, Sep (NYS); Coeymans (Lint); Peekskill (Sherm); West Pt. (Robn); White Plains (Sq); **SI**, Mar-Aug, common (L&D); **LI**: Jamaica, May, Flatbush, Dec, *Eng* (Sf); Rockaway, May, *Pollard* (Lg); Orient, *Lath* (NYS).
- 11185 **C. transversoguttata** Fald. Mt. Marcy, Jl (NYS); Mooers, Sep (Not); Saranac (Lg); Wilmington, Aug (Dt); N. Elba, Jl, *Wat* (Lg); Olcott (Dt); Buffalo, Aug (NYS); Erie Co, May-Aug (Dnd); Westfield, May (Not); Ithaca (Pack); Highland, Aug (Cy); West Pt. (Robn); **SI**, Jl (L&D); **LI**: Orient, *Lath* (NYS).
- 11185a **C. transversoguttata** var. *quinenotata* Kby. Essex Co, Jl (NYS); Washington Co (AshtonTB); Thousand Isls., Sep (CU); Castile, May, *Brad* (Flet); Ithaca, May (CU).
- 11187 **C. monticola** Muls. Mt. Whiteface, Jl (Lg); Wanakena, Cranberry L., Aug (Drk).

#### CYCLONEDA Crotch

- 11189 **C. sanguinea** L. Newport, Je (NYS); Cranberry L., Jl (H); Syracuse, May, Oct 6 (H); Olcott, Aug (Dt); Buffalo (Z&R); E. Aurora, Je-Sep (Dnd); Pike, Je (NYS); Batavia, Je-Aug (Kngt); Castile, Sep *Brad* (Flet); Ithaca, Jl-Sep (CU); Coeymans (NYS); West Pt. (Robn); White Plains (Sq); **LI**: Yaphank, May, *Pollard* (Lg); Orient Pt., May (NYS).
- 11189a **C. sanguinea** var. *immaculata* Fab. **LI**: Brooklyn, Jl (Nic).
- 11190 **C. munda** Say. Ithaca (Pack); **SI**, Je-Oct (L&D); **LI**: Pinelawn, Ap, Yaphank, Sep, *Eng* (Sf).



## OLLA Casey

- 11192 *O. abdominalis* Say. "NY" (Lec). This record is doubtful (Lg).

## ADALIA Mulsant

- 11193 *A. bipunctata* L. Cranberry L., Je-Jl (H); Green L., Jan (Dt); Pittsford, May (Leon); Olcott, Je-Jl (Dt); Buffalo (Z&R); E. Aurora (Dnd); Batavia, Jl (Kngt); Westfield, May (Not); Forestville, Dec (Cy); Castile, *Brad* (Flet); Fayetteville, Oct (NYS); Ithaca, Mar-Sep (NYS, CU); Windsor, Je (Not); Wampsville, Jl (Cy); Sherburne, Je (Cy); Albany, Nassau (Felt); Poughkeepsie (Sherm); Bangall (Sf); West Pt. (Robn); White Plains (Sq); Mt. Vernon (Flet); Croton-on-Hudson, May (Ang); NYC (Felt); **SI**, Ap-Oct, often hibernates in dwellings (L&D); **LI**: Westbury; Forest Pk., Je (Lg); Orient, *Lath* (NYS).
- 11194 *A. frigida* Schn. Saranac (Lg); Axton, Je (M&H); L. Placid, Aug (NYS); Brant L., *Doll* (Sf); Buffalo (Z&R); E. Aurora, Jl (Dnd).
- 11194a *A. frigida* var. *disjuncta* Rand. Saranac (Lg).
- 11194b *A. frigida* var. *humeralis* Say. **LI**, Sep, *Pears* (Sf).

## CLEIS Mulsant

- 11196 *C. picta* Rand. Mt. Marcy, Jl (NYS); Mt. Whiteface, Jl (Lg); Mt. Seward, 4500 ft., Je (M&H); Speculator, Jl (NYS); Cranberry L., Je-Jl (H); Buffalo (Z&R); Ithaca, Je (CU); West Pt. (Robn); **SI**, Ap, Je (L&D); **LI**: Rockaway Beach, Long Beach, Wyandanch, Yaphank, May-Nov, *Eng* (Sf).
- 11197 *C. hudsonica* Csy. Mt. Whiteface, Jl, *Shoe* (Sf).

## ANISOCALVIA Crotch

- 11200 *A. duodecim-maculata* Gebl. Mt. Whiteface, Jl, *Shoe* (Sf); Cranberry L., *Hily* (H).
- 11201a *A. quatuordecimguttata* L. var. *similis* Rand. Wilmington, Jl (Lg); Cranberry L., *Hily* (H).
- 11201b *A. quatuordecimguttata* var. *cardisce* Rand. "Adirondacks" (Csy); Mt. Whiteface, Jl (Lg).
- *A. quatuordecimguttata* var. *exoleta* Weise. Mt. Whiteface, Jl, *Shoe* (Sf).
- *A. quatuordecimguttata* var. *bicordifera* Csy. NY, type locality.
- *A. quatuordecimguttata* var. *uniformis* Csy. NY, type locality.
- 11201d *A. quatuordecimguttata* var. *obliqua* Rand. Mt. Whiteface, Jl, *Shoe* (Sf).
- *A. quatuordecimguttata* var. *scutulata* Weise. Mt. Whiteface, Jl, *Shoe* (Sf); Big Ind. Val., Jl, *Pears* (Sf).

## ANATIS Mulsant

- 11202 *A. quindecimpunctata* Oliv. Plattsburg (NYS); Cranberry L., Je (H); Wilmington, Aug (Dt); Olcott, Je, Aug (Dt); Buffalo (Z&R); Pike (NYS); Batavia, Je-Jl (Kngt); Castile, *Brad* (Flet); Ithaca, Ap-Jl (NYS, CU); Albany, Karner (NYS); Poughkeepsie (NYS); West Pt., Jl (Eng); White Plains (Sq); Port Jervis (Lint); Pine L., Je,

*Pollard* (Lg); **SI**, May-Oct (L&D); **LI**: Mattituck (CU); Flatbush, Amagansett, *Eng* (Sf); Rockaway, May, *Pollard* (Lg); Orient, *Lath* (NYS).

- 11202a **A. quindecimpunctata** var. *mali* Say. Webster, JI (CU); **SI**, on shore at Ward's Pt., Je 5 (L&D).

#### NEOMYSIA Casey

- 11205 **N. pullata** Say. Mt. Whiteface, JI, *Shoe* (Lg); Buffalo (Z&R); Ithaca, Ap-Aug (CU); W. Hebron (Lg); West Pt. (Robn); **SI**, Mar, Je-JI (L&D); **LI**: Far Rockaway, Central Pk., Promised Land (Sf).
- 11209 **N. randalli** Csy. Ithaca (Lg-CU).

#### AXION Mulsant

- 11212 **A. tripustulatum** DeG. **SI**, Je, Sep (L&D); **LI**: Coney I. (Lg); Yaphank, May (Sf); Rockaway, Je, *Pollard* (Lg).

#### CHILOCORUS Leach

- 11217 **C. bivulnerus** Muls. Mt. Whiteface, JI (Lg); Cranberry L., Je-JI (H); Olcott, May-Je (Dt); Buffalo (Z&R); Batavia, Aug (Kngt); Castile, May, *Brad* (Flet); Ithaca, Mar-Sep (CU); Bolton, *Thompson* (Lg); Albany, Karner, Nassau (NYS); Kingston, JI (Sf); Poughkeepsie (NYS); West Pt. (Robn); **SI**, Ap-JI (L&D); **LI**: Aqueduct, Babylon, Aug (Sf); Orient, *Lath* (NYS).

#### EXOCHOMUS Redtenbacher

- 11220 **E. marginipennis** Lec. "Ind. Jct." (NYS); **SI**, Je-JI, Sep, usually on oak (L&D); **LI**: Pinelawn, Yaphank (Sf).
- 11226 **E. davisii** Lg. **LI**: Yaphank (Sf); Wyandanch, May (Ds).

#### SUBFAMILY EPILACHNINAE

##### EPILACHNA Chevrolat

- 11229 **E. borealis** Fab. Ithaca, JI-Aug (CU); Peekskill, Sep (CU); West Pt. (Robn); White Plains, Sep 9 (Sq); **SI**, Ap-Aug (L&D); **LI**: Glen Cove, Dosoris, Bellport (Lint); Sea Cliff (CU); Orient, *Lath* (NYS).

#### FAMILY ALLECULIDAE

##### (*Cistelidae*)

#### SUBFAMILY ALLECULINAE

##### LOBOPODA Solier

- 11236 **L. punctulata** Melsh. Callicoon (AM); Bronx Pk. (Sf); **LI**: E. Pat-chogue, Yaphank, May-Sep, Central Pk. (Ds).
- 11239 **L. atra** Say. Newport, Je (Yg); Greenwood L. (Sf); **LI**: Jamaica, Je (NYS); Wading R., JI (Ds); Yaphank, Je (Sf).

## HYMENORUS Mulsant

- 11246 **H. niger** Melsh. Newport, Je (NYS); Cranberry L., Wanakena, Aug (Drk); Olcott, Aug (Blaisdell); Buffalo (Z&R); Castile, *Brad* (Flet); E. Aurora, Jl, Allegany Pk., Aug (Flet,Dnd); Cincinnatus, Jl (Flet,Dnd); West Pt. (Robn); **SI** (L&D); **LI**: Jamaica (Sf).
- 11250 **H. melsheimeri** Csy. Minnewaska, Aug 25, *Nic* (Frost).
- 11251 **H. pilosus** Melsh. Catskills (Sf); West Pt., Je (Sf); Bronx Pk. (Sf); **SI**, Je-Aug (L&D); **LI**: Central Pk., Wading R., Yaphank, Jl-Sep (Ds).
- 11252 **H. difficilis** Csy. "NY" (Csy).
- 11253 **H. perforatus** Csy. NY (AM).
- 11255 **H. obscurus** Say. Buffalo (Z&R); Mosholu (Sf); **SI**, Je (L&D).
- 11267 **H. discretus** Csy. Mosholu (Sf).
- 11287 **H. punctatissimus** Lec. Buffalo (Z&R). Described from Ariz. and southern Calif.

## PSEUDOCISTELA Crotch

- 11299 **P. brevis** Say. Mt. Whiteface, Jl (Ds); Buffalo (Z&R); Conesus L., Je (Ds); Ramapo, Je (Ds); West Pt., Je (Ds).
- 11301 **P. pinguis** Lec. Ramapo (Sf).
- 11303 **P. marginata** Ziegl. West Pt., May, Je, *Robn* (Sf).

## ISOMIRA Mulsant

- 11306 **I. tenebrosa** Csy. Buffalo (Csy); Portage, Je (Ds); NYC (Csy).
- 11307 **I. sericea** Say. Newport, Je (Yg); L. Placid; Mt. Whiteface, Jl (Ds); E. Aurora, Jl, Allegany Pk., Aug (Flet,Dnd); Buffalo (Z&R); Pike (NYS); Ithaca, Jl-Aug (Dt); Taughannock Falls, Aug 11 (Vdyk); Albany, Jl (NYS); White Plains, Jl (Fall,Sq); West Pt. (Robn); Mosholu (Sf); **SI**, Je-Jl (L&D); **LI**: Yaphank, Jl (Sf); Jamaica, Mineola, Jl, *A. Wolf* (NYS); Flatbush (AM).
- 11311 **I. quadristriata** Couper. Axton, Je (M&H); Speculator, Je (NYS); Hope, Aug, *Bks* (NYS); L. Placid, Je (NYS); Long L., Aug (NYS); Newport, Je (NYS); Cranberry L., Je-Jl (H); Severance, Aug, *Bks* (NYS); Gloversville, Jl (NYS); Northampton, Je (NYS); Sodus, Jl (NYS); Olcott, Je-Jl (NYS); Buffalo (Z&R); Batavia, Je (Kngt); Pike, Jl (NYS); Rock City (Ds); Montour Falls, Je (H); Ithaca, Je-Jl (Dt); Windsor, Je (Not); Schoharie (Not); Albany, Jl (NYS); Corinth, Je (NYS); Karner, Jl (NYS); West Pt., Ft. Montgomery, Stony Pt. (Ds); Mosholu, Je (NYS); **SI**, Jl (L&D); **LI**: Flatbush (AM).
- 11314 **I. oblongula** Csy. Olcott, Je-Jl (NYS); Buffalo (Csy).

## CHROMATIA LeConte

- 11319 **C. amoena** Say. Buffalo (Z&R).

## CAPNOCHROA LeConte

- 11320 **C. fuliginosa** Melsh. Newport, Je (Yg); Buffalo (Z&R); North Branch, (*Schaupp*); Greenwood L. (Sf); West Pt., Je (Ds); Peekskill (Ds); **SI**, Je (L&D); **LI**: Yaphank, Je (Sf); Half Way Hollow Hills, Jl (Ds).

## MYCETOCHARA Berthold

- 11321 *M. haldemani* Lec. Buffalo (Horn); West Pt. (Robn).  
 11322 *M. fraterna* Say. Cranberry L., J1 2, from dying spruce (H); Buffalo (Z&R); Ithaca, Je (Dt); West Pt. (Robn); **SI**, Je (Ds); **LI**: Brooklyn, Je (Sf).  
 11324 *M. megalops* Csy. Northampton, Je (NYS); Batavia, J1 (Kngt); West Pt. (Robn).  
 11326 *M. tenuis* Lec. Newport, Je (Yg); Buffalo (Z&R); Schenectady, J1 (NYS); Albany, Feb (NYS).  
 11327 *M. foveata* Lec. Buffalo.  
 11329 *M. nigerrima* Csy. "NY" (Csy); Cranberry L., J1 12 (H). Under dead bark of witch-hazel (Felt).  
 11330 *M. lecontei* Borchm. Rochester (Moore).  
 11331 *M. rufipes* Lec. Rochester (Moore); Ithaca, J1 (Dt).  
 11332 *M. marginata* Lec. "NY" (Lec).  
 11333 *M. binotata* Say. Newport (NYS); Cranberry L., J1 (Drk); Geneva, J1 (Cls); Buffalo (Z&R); Ithaca, Je (Dt); Schoharie (Not); West Pt. (Robn); **SI**, Je (L&D). Under poplar bark (Felt).  
 11336 *M. bicolor* Coup. Mt. Whiteface, J1 (Sf).  
 11337 *M. analis* Lec. West Pt. (Robn); Nyack, Je (Ds); Bronx Pk. (Sf); **SI**, Je 4, on seashore (L&D).  
 11338 *M. lugubris* Lec. Ithaca, J1 (Dt).

## SUBFAMILY OMOPHLINAE

## ANDRIMUS Casey

- 11353 *A. convergens* Csy. "NY" (Csy).

## ANDROCHIRUS LeConte

- 11355 *A. erythropus* Kby. Cranberry L., J1 21 (H); Ithaca, J1 (Dt); North Branch (Schaupp); West Pt. (Ds); Mosholu, Je (Sf); **SI** (L&D); **LI**: Half Way Hollow Hills (Ds).

## FAMILY TENEBRIONIDAE

Compiled by F. C. FLETCHER

## SUBFAMILY TENTYRIINAE

## BOTHROTES Casey

- 11551 *B. arundinis* Lec. Buffalo (Z&R); West Pt. (Robn); **SI**, Sep (L&D).

## SCHOENICUS LeConte

- 11591 *S. puberulus* Lec. E. Aurora, Allegany Pk., Je (Dnd); **LI**: Coram, Selden, Riverhead, Amagansett, Deep Pond, Wading R., Aug-Sep (Ds); Promised Land, Sep, *Eng* (Sf).

## PHELLOPSIS LeConte

- 11671 **P. obcordata** Kby. Axton, Je, 1901 (M&H); Keene Val., Aug, *Diven* (Flet); White L., *Zab* (AM); Newport, Je (NYS); Cranberry L., J1 (Drk), Je (H); Buffalo (Z&R); Ithaca, May (Dt); E. Jewett, Ap (Ds); North Branch (Schaupp).

## SUBFAMILY BLAPTINAE

## BLAPS Fabricius

- 11922 **B. mucronata** Latr. NYC, *Dt* (Sf).  
 11923 **B. lethifera** Marsh. NYC, *Dt* (Sf).

## SUBFAMILY PEDININAE

## OPATRINUS Latreille

- 12187 **O. aciculatus** Lec. **SI**, May–Nov (L&D).  
 12188 **O. minimus** Beauv. Bangall, Sep, *Eng* (Sf); West Pt. (Robn); **SI**, Sep (L&D); **LI**, *Eng* (Sf).

## BLAPSTINUS Latreille

- 12207 **B. metallicus** Fab. Cranberry L., J1 (H); Rochester (M&W); Buffalo (Z&R); Olcott, Ap–May, Aug (Dt); Ithaca, May (Flet); West Pt. (Robn); **SI**, May–Je (L&D); **LI**: Greenport, Aug, Promised Land, Je, *Eng* (Sf); Babylon, J1 (AM).  
 12208 **B. interruptus** Say. Rochester (M&W); Olcott, J1 (Dt); Buffalo (Z&R); Ithaca, J1 (Dt); Peekskill, Ap, *Schaupp* (Blais); **SI**, Je (L&D); **LI**: Babylon, Je (AM).  
 12227 **B. moestus** Melsh. Rochester (M&W); West Pt. (Robn); Peekskill, Ap, *Sherm* (Flet); **SI**, May, Sep (L&D); **LI**: Shinnecock Hills, Orient (Ds); Rockaway Beach, Ap, *Eng*, Queens, *Schott* (Sf).

## SUBFAMILY OPATRINAE

## AMMODONUS Mulsant and Rey

- 12275 **A. fossor** Lec. Rensselaer (Lec); **SI**, May, Sep (L&D); Tottenville, Je, *Ds* (Sf).

## EPHALUS LeConte

- 12279 **E. latimanus** Lec. **LI**: Wading R., on shore, *Ol*s (Ds); Amagansett, Aug, Promised Land, *Eng* (Sf); Rockaway Beach, *Dt* (Sf).

## SUBFAMILY PHALERIINAE

## PHALERIA Latreille

- 12286 **P. testacea** Say. **SI**, May–Aug (L&D); **LI**: Rockaway Beach, Je, Long Beach, May (Ds); Babylon, Coney I. (AM).



## SUBFAMILY BOLITOPHAGINAE

## BOLITOTHERUS Candeze

- 12295 **B. cornutus** Panz. Axton, Je (M&H); Keene Val., *Diven* (Flet); Wilmington, Aug (Ds); Cranberry L., Je-Jl (H); Newport, May (NYS); White L., *Zab*, Jl, abundant (AM); Rochester (M&W); Olcott, Je-Jl, Sep (Dt); Buffalo (Z&R); Pike, May (NYS); Batavia, Aug-Sep (Kngt); Ithaca, Ap-Je, Sep (Dt, Flet); McLean, May (Blais-CU); Michigan Hollow Swamp, May (Flet); North Branch (Schaupp); West Pt. (Robn); **SI** (L&D); **LI**: Rockaway Beach, Orient (Ds).

## BOLITOPHAGUS Illiger

- 12296 **B. corticola** Say. Cranberry L., Jl (Drk); Buffalo (Z&R); Allegany Pk., Je (Dnd); Ithaca, Feb (Blais-CU); North Branch (Schaupp).

## ELEATES Casey

- 12297 **E. depressus** Rand. Cranberry L., Jl (H); Rochester (M&W); North Branch (Schaupp).

## SUBFAMILY RHIPIDANDRINAE

## RHIPIDANDRUS LeConte

- 12301 **R. flabellicornis** Sturm. Mosholu (Sf).

## SUBFAMILY DIAPERINAE

## DIAPERIS Geoffroy

- 12305 **D. maculata** Oliv. Cranberry L., Jl (H); Newport, Je (NYS); Rochester (M&W); Batavia, Je-Jl (Kngt); Buffalo (Z&R); E. Aurora, Je-Aug (Dnd); Pike, May (NYS); Ithaca, May, Jl, Sep (Flet, Dt); Karner, Je (NYS); West Pt. (Robn); Mosholu (AM); NYC (AM); **SI**, Ap-Sep (L&D); **LI**: Yaphank, May, *Eng*, Wyandanch (Sf); Flatbush, Oakdale (AM).

## HOPLOCEPHALA Castelnau and Brullé

- 12308 **H. viridipennis** Fab. Buffalo (Z&R); **SI**, Ap-May (L&D).  
 12309 **H. bicornis** Fab. Cranberry L., Jl (H); Syracuse (B&S); Rochester (M&W); Olcott, Mar, May, Oct, Dec (Dt); Batavia, Sep (Kngt); Buffalo (Z&R); Castile, *Brad* (Flet); Pike, May (NYS); Onondaga Co (H); Westfield, May (Not); Geneva, Nov (Blais-CU); Ithaca, May (Flet); Taughannock Falls, Oct (Blais-CU); Albany, Ap (NYS); West Pt. (Robn); **SI**, Feb-May (L&D); **LI**: Orient (Ds); Flatbush (AM).

## SCAPHIDEMA Redtenbacher

- 12311 **S. aeneolum** Lec. Catskills, *Pears*, Olivera, Jl, *Shoe* (Sf); West Pt. (Robn).

## PLATYDEMA Castelnau and Brullé

- 12314 *P. excavatum* Say. Rochester (M&W); E. Aurora, Oct-Nov (Dnd); Buffalo (Z&R); Batavia, Aug (Kngt); Ithaca, Sep (Dt); Six Mile Cr., Ithaca, May (Flet); West Pt. (Robn); **SI**, Ap-May, J1 (L&D); **LI**: Hempstead Plains, Yaphank, May (Cf); Forest Pk., Mar, *Martin* (Sf).
- 12314a *P. excavatum* var. *parvulum* Csy. **LI**, type locality.
- 12318 *P. ruficorne* Sturm. Rochester (M&W); Buffalo (Z&R); E. Aurora, Aug (Dnd); Pike, May (NYS); Ithaca, Ap-May (Flet); West Pt. (Robn); **SI**, Ap-Je, Sep (L&D).
- 12321 *P. ellipticum* Fab. Rochester (M&W); **SI**, Ap, J1 (L&D); **LI**: Aqueduct, Flushing, Dec (Ds).
- 12323 *P. americanum* Cast. & Brll. Peru, Je (Blais-CU); Cranberry L., J1 (H); Rochester (M&W); Buffalo (Z&R); Protection, Je, *Dnd* (Flet); Ithaca, May, Sep, Nov (Flet, Dt); Selkirk, Ap (NYS); **SI**, Je (L&D).
- 12327 *P. picilabrum* Melsh. West Pt., May (Robn).
- 12328 *P. subcostatum* Cast. & Brll. Newport, Je (NYS); Rochester (M&W); Olcott, Sep-Oct (Dt); Buffalo (Z&R); E. Aurora, Aug, *Dnd* (Flet); Ithaca, Sep-Oct (Dt); Albany, Aug (NYS); West Pt. (Robn); **SI**, May, J1 (L&D); **LI**: Rockaway Beach, Yaphank, May, *Eng* (Sf); Flatbush (AM).

## ALPHITOPHAGUS Stephens

- 12332 *A. bifasciatus* Say. Howard, Dec (Blais-CU).

## PENTAPHYLLUS Latreille

- 12333 *P. pallidus* Lec. Rochester (M&W); Buffalo (Z&R); Westfield, May (Not); Catskills, May (NYS).

## SUBFAMILY ULOMINAE

## GNATHOCERUS Thunberg

- 12336 *G. cornutus* Fab. **SI** (L&D).

## TRIBOLIUM MacLeay

- 12343 *T. ferrugineum* Fab. Buffalo (Z&R); Albany, Oct (Fab); **SI**, Ap, Sep-Oct (L&D).
- 12345 *T. confusum* Jacq. Duv. Rochester, Jan (Flet-CU); Castile, *Brad* (Flet); Ithaca, May, Sep, Nov (Flet); West Pt. (Robn); **SI** (L&D).

## DIOEDUS LeConte

- 12346 *D. punctatus* Lec. Buffalo (Z&R); Ithaca, Mar (Blais); Ramapo (AM).

## PALORUS Mulsant

- 12348 *P. depressus* Fab. **LI**: Brooklyn (Chitt); Astoria, Aug, *Felt* (NYS).
- 12349 *P. ratzeburgi* Wissm. NYC (Chitt); **LI**: Howard, Dec (Blais-CU).

## ULOMA Castelnau

- 12353 **U. impressa** Melsh. Newport, May (NYS); Oswego, May (NYS); Rochester (M&W); Olcott, May (Dt); E. Aurora, May (Dnd); Cattaraugus Co, Jl (Ds); Ithaca, Ap-Je (Blais, Dt); McLean Bogs, Jl (Blais, Dt); L. George, White L., *Zab* (NYS); **SI**, Mar-Sep (L&D); **LI**: Jamaica, Pinelawn, Ap, Yaphank, May, *Eng* (Sf); Forest Pk., Mar, *Martin*, Shetland I., Jl, *Eng* (Sf).
- 12354 **U. imberbis** Lec. "NY to Kans." (Lec); West Pt. (Robn).
- 12357 **U. punctulata** Lec. Rochester (M&W); Ithaca, Jl (Dt); **LI**: Yaphank, May (Sf).

## ALPHITOBIOUS Stephens

- 12360 **A. diaperinus** Panz. NYC (Blais).
- 12361 **A. piceus** Oliv. "NY" (Oliv).

## EUTOCHIA LeConte

- 12362 **E. picea** Melsh. Peekskill, *Sherm* (Blais-CU); Mosholu (Sf); **SI**, Ap (L&D).

## HYPOPHLOEUS Fabricius

- 12372 **H. parallelus** Melsh. Cranberry L., Jl (H); Olcott, Dec (Dt); Buffalo (Z&R); **SI**, Mar (L&D); **LI**: Central Pk., Ap, *Eng* (Sf); Rockaway (AM).
- 12376 **H. tenuis** Lec. Cranberry L., Je-Jl (H).
- 12377 **H. thoracicus** Melsh. Buffalo (Z&R); **SI**, May (L&D).

## SUBFAMILY TENEBRIONINAE

## SCOTOBATES Horn

- 12386 **S. calcaratus** Fab. Essex Co, Aug (NYS); Peru, Je (Blais-CU); New Russia, Aug, *Bdy* (Blais); Malone, Oct (Blais-CU); White L., *Zab* (AM); Syracuse (B&S); North Fairhaven, Aug, *Babiy* (Flet); Honeoye Falls, Je (Ds); Rochester (M&W); Erie Co, Jl-Sep, Alleghany Pk., Aug (Dnd); Buffalo (Z&R); Canandaigua L., Jl (NYS); Ellicottville, Aug (Ds); Ithaca, Jl-Sep (Dt, Vdyk); McLean Bogs, Aug, *Yuasa* (Vdyk); Saratoga Sps., Aug (Dt); Albany (NYS); Oliveria (Ds); West Pt. (Robn); **SI**, Je-Aug (L&D); **LI**: Cold Sp. Harb., Coram, Half Way Hollow Hills, Jl (Ds); Yaphank, Jl, Sep, *Eng* (Sf); Flatbush, *Zab* (AM).

## MERINUS LeConte

- 12389 **M. laevis** Oliv. Buffalo (Z&R); Egleston's Glen, Keuka L., Je (Ds); Ithaca, Aug (Blais-CU); **LI**: Smithtown, Deep Pond, Wading R. (Ds); Yaphank, May, Jl, Sep, *Eng* (Sf, Ds).

## XYLOPINUS LeConte

- 12390 **X. saperdioides** Oliv. Peru, Jl, *Mix&Everett* (Blais); Cranberry L., Jl (H); Syracuse (B&S); Rochester (M&W); Batavia, Jl (Kngt); Buffalo (Z&R); Pike, Je (NYS); Ithaca, May, Aug (Flet, Blais); Rensselaer, Jl (NYS); Pine L., Je (Ds); West Pt. (Robn); **LI**: Yaphank, Jl, *Eng* (Sf, Ds).
- 12390a **X. saperdioides** var. *rufipes* Say. Buffalo (Z&R); West Pt. (Robn); **LI**: Yaphank, Jl, *Eng* (Sf).
- 12391 **X. aenescens** Lec. Ithaca, Aug, Oct, *Reynolds* (Blais); Bronx Pk. (Sf); **SI**, Jl (L&D); **LI**: Yaphank, Jl (Ds).

## HAPLANDRUS LeConte

- 12392 **H. fulvipes** Hbst. Rochester, Je, *Leon* (Flet, M&W); Olcott, Jl, Sep (Dt); Buffalo (Z&R); Ithaca, Je, Aug (Blais-CU); Peekskill, *Schaupp* (Blais); West Pt., Jl, *Eng* (Sf); Bronx Pk., Jl (Ds); **SI**, Je, Aug (L&D); **LI**: Babylon, Flatbush (AM).
- 12393 **H. ater** Lec. **LI**: Far Rockaway, Mar, *Dow* (Sf).

## IPHTHIMUS Truqui

- 12405 **I. opacus** Lec. Saranac Inn, Jl, Newport, May (NYS); Mt. Whiteface, 2000-4000 ft., Aug (Dt); Wanakena, Aug (Drk); Cranberry L., Je-Jl (H); Rochester (M&W); Pike, May (NYS); Ithaca, Je (Flet); Windsor, Je (Not); Big Ind. Val., Sep, *Eng* (Ds); Karner, Jl (NYS).

## ALOBATES Motschulsky

- 12407 **A. pennsylvanica** DeG. Chateaugay L., Sep (AM); Cranberry L., Je-Jl (H); Wells, Je, Nov, *Babiy* (Flet); Syracuse, Aug, Oct (Drk); Rochester (M&W); Buffalo (Z&R); Batavia, Je (Kngt); Erie Co, Je-Dec (Dnd); Westfield, May (Not); Castile, *Brad* (Flet); Summit, *Crouse* (Lint); Penn Yan, Cy (Blais); Coy Glen, May (Blais-CU); Ithaca, May, Jl (Dt); McLean, May (Blais-CU); Windsor, Je (Not); Saratoga Sps., Aug (Dt); Poughkeepsie, Je (NYS); West Pt. (Robn); **SI**, Feb, Jl (L&D); **LI**: Pinelawn, Central Pk., Yaphank, Wyandanch, Amagansett, Half Way Hollow Hills, Mar-Je (Ds); Brooklyn, Oct, *Eng* (Sf); Flatbush (AM).
- 12408 **A. barbata** Knoch. Ithaca, Oct (Blais-CU); **LI**: Yaphank, May, Pinelawn, Ap, *Eng* (Sf).

## UPIS Fabricius

- 12411 **U. ceramboides** L. Axton, Je (M&H); Peru, Jl, *Mix&Everett* (Blais); Wilmington, Aug (Ds); Cranberry L., Je-Jl (Drk, H); Mt. Whiteface, 4000-4872 ft., Aug (Dt); Saranac Inn, Je (NYS); Rochester (M&W); Buffalo (Z&R); Pike (NYS); Fulton, Ap, Cy (Blais); Karner, Mar, Jl (NYS); **LI**: Orient, May, *Lath* (Ds).

## IDIOBATES Casey

- 12412 **I. castaneus** Knoch. Rochester (M&W); Buffalo (Z&R); Ithaca, Je (Dt); **LI**: Yaphank, May, Sep, *Eng* (Sf).

## TENEBRIO Linnaeus

- 12413 **T. obscurus** Fab. Severance, Aug, Newport, May (NYS); Rochester (M&W); Buffalo (Z&R); Victory, Jl (NYS); Ithaca, Je (Blais-CU); Albany, Je, Ilion, May (NYS); Nyack (AM); **SI**, May-Je, Aug (L&D); **LI**: Yaphank, Jl (Ds); Brooklyn, Jl (Sf); Flatbush (AM).
- 12414 **T. molitor** L. Essex Co, Jl, Newport, Je (NYS); Peru, Jl, *Mix&Everett* (Blais); Keene Val., *Diven* (Flet); Rochester, Jl, *Leon* (Blais); Buffalo (Z&R); Otto (Blais-CU); Castile, Jl, *Brad* (Flet); Ithaca, Jl-Aug, *Dt* (Blais, Flet); Newark Val. (Lint); Albany, *Wadham* (Lint); Coeymans, *SmEB* (Lint); Mt. Vernon, May (NYS); **SI**, Je-Jl (L&D); **LI**: Orient, *Lath* (NYS); Flatbush, Je, *Eng* (Sf); Brooklyn, Oct, Rockaway Beach, May, *Eng* (Sf).

## NEATUS LeConte

- 12415 **N. picipes** Hbst. (*Tenebrio*). Essex Co., Aug, Newport (NYS); Cranberry L., Je (H); Keene Val., *Diven* (Flet-CU); Peru, Je (Blais-CU); Oswego, May (NYS); Syracuse (B&S); Rochester (M&W); Olcott, May-Aug (Dt); Buffalo (Z&R); Castile, *Brad* (Flet); E. Aurora, Je, *Dnd* (Flet); Canandaigua, Aug (Blais-CU); Ithaca, Ap-Sep (Dt); Enfield Falls, Ap (Blais); Albany, Ilion, Karner, Mar (NYS); Catskills, Aug (NYS); West Pt. (Robn); **SI**, Ap, Jl (L&D); **LI**: Yaphank, Deep Pond, Long Pond at Wading R., Pennequid Barrens, Coram (Ds).

## BOROS Herbst

- 12423 **B. unicolor** Say. Buffalo (Z&R); Ithaca, Mar (Dt); Ap 13 (Flet); Peekskill, *Sherm* (Flet-CU); **SI**, Ap, Nov (L&D); **LI**: Melville, Feb, *Schott* (Frost); Central Pk., Ap, *Eng*, Parkville (Sf).

## SUBFAMILY HETEROTARSINAE

## ANAEDUS Blanchard

- 12425 **A. brunneus** Ziegl. E. Aurora, May (Dnd); West Pt. (Robn); **SI**, Ap, Nov (L&D), *Sherm* (Flet-CU); **LI**: Selden, Aug (Ds); Yaphank, Sep, *Eng*, Forest Pk., Mar, *Martin* (Sf).

## PRATEUS LeConte

- 12431 **P. fuscus** Lec. "NY" (Lec).

## PARATENETUS Spinola

- 12432 **P. punctatus** Spin. Keene Val., Sep, *Eng* (Sf); Buffalo (Z&R); E. Aurora, Jl, *Dnd* (Flet); Ithaca, Je-Aug (Dt); Ft. Edward, Je (NYS); Kenwood, Je (NYS); West Pt. (Robn); **SI**, Je (L&D); **LI**: Yaphank, Sep, *Eng* (Sf).
- 12433 **P. fuscus** Lec. Peekskill, Ap, *Sherm* (Blais-CU).



## SUBFAMILY HELOPINAE

## TARPELA Bates

- 12446 **T. micans** Fab. Rochester (M&W); Buffalo (Z&R); Erie Co, May-Jl (Dnd); Ithaca, May (Flet-CU); West Pt. (Robn); Peekskill, *Schaupp*, *Sherm*; Sterlington, May, *Cy* (Flet-CU); **SI**, Ap-Jl (L&D); **LI**: Lynbrook, Je, *Cy* (Flet-CU); Orient, *Lath* (NYS); Wading R., Massapequa, Yaphank, Wyandanch, Central Pk. (Ds); Flatbush (AM).
- 12448 **T. venusta** Say. **SI**, Aug (L&D).

## HELOPS Fabricius

- 12455 **H. gracilis** Bland. **LI**: Yaphank, Je-Jl, Rockaway Beach, May, *Eng* (Sf).
- 12469 **H. aereus** Germ. Peekskill (Schaupp); West Pt., Je (Ds); Bronxville, Je (NYS); **SI**, May-Je (L&D); **LI**: Central Pk., Massapequa, Half Way Hollow Hills, May-Jl (Ds); Flatbush (AM); E. New York, Pinelawn, May, *Eng* (Sf); Central Pk., Ap, *Eng* (Sf).

## SUBFAMILY MERACANTHINAE

## MERACANTHA Kirby

- 12485 **M. contracta** Beauv. Rochester (M&W); Olcott, Je-Jl (Dnd, Dt); Buffalo (Z&R); Lake Bluff, Ap, Je (CU); Aurora, Aug, *Foster* (Flet-CU); **SI**, Jl (L&D); **LI**: Parkville (AM); Jl, *Eng* (Sf).

## SUBFAMILY STRONGYLIIINAE

## STRONGYLIIUM Kirby

- 12489 **S. terminatum** Say. Ithaca, Jl (Flet).
- 12488 **S. tenuicolle** Say. Rochester, Jl, *Leon* (Blais-CU); Olcott, Je (Dt); E. Aurora, Je (Dnd); Ithaca, Jl, *Babiy* (Flet); West Pt. (Robn); **SI**, Je-Jl (L&D); **LI**: Je, *Eng* (Sf); Parkville (AM).

## FAMILY LAGRIIDAE

## ARTHROMACRA Kirby

- 12497 **A. aenea** Say. Speculator, Je, Wells, Je, Old Forge, L. Placid, Je (NYS); Saranac Inn, Je (NYS); Axton, Je (M&H); Cranberry L., Je-Jl (H); Olcott, Je-Jl (Dt); Buffalo (Z&R); Pike (NYS); Westfield, Je (NYS); Montour Falls, Je (H); Ithaca, Ringwood, McLean Bogs, Je-Jl (Vdyk); Windsor, Je (Not); Albany, Corinth, Lansingburg, North Chatham, Poughkeepsie, Je (NYS); West Pt. (Robn); Mosholu, Je (Sf); Huguenot, White L. (AM); West Pt., Jl (Sf); White Plains, Je (Sq); vic. NYC (AM); **SI**, May-Je (L&D).

## STATIRA Serville

- 12502 **S. gatatina** Melsh. Mosholu (Sf); **SI**, Je-Jl (L&D); **LI**: Flatbush, Long Beach (AM).

## FAMILY MELANDRYIDAE

## TETRATOMA Fabricius

- 12519 *T. truncorum* Lec. Johnstown, Oct (NYS); Buffalo (ANSP).

## ABSTRULIA Casey

- 12521 *A. tessellata* Melsh. Buffalo (Z&R); West Pt. (Robn); Mosholu (Sf); **SI**, Je (L&D).

## PISENUM Casey

- 12525 *P. humeralis* Kby. Syracuse, Ap, bracket fungus (H); Olcott, Mar, Aug (Dt); Westfield, May (Not); Howland L., Nov (CU); Shokan, *Thompson* (Lg); West Pt. (Robn); **LI**: Bellport, Aug, *Nic* (Woodr).

## PENTHE Newman

- 12527 *P. obliquata* Fab. Cranberry L., Je-Jl (H); Buffalo (Z&R); Olcott, May, Aug-Sep (Dt); Castile, *Brad* (Flet); Ithaca, May, Sep (Dt-CU); Schenectady, May, Aug-Sep (Dt); Peekskill, Jl (Sherm); West Pt. (Robn); Bronx Pk., Sep (NYS); Bronxville, Van Cort. Pk., Mar-Jl (Woodr); **SI**, Jan-Nov (L&D); **LI**: Flatbush, Ap, Oct (Sf, Woodr-AM); Jamaica, Bellport, *Nic* (Woodr); Parkville (Woodr-AM); Flushing, Dec, *Bell* (Ds); Melville, Sep, Yaphank, May-Je (Ds).
- 12528 *P. pimelia* Fab. Mayfield, May (NYS); Cranberry L., Je 23 (H); Syracuse, Ap-May, under bark (H); Olcott, Je, Sep (Dt); Buffalo (Z&R); Batavia, Jl (Kngt); Ithaca, Je-Sep (Dt); W. Hebron, Je (Lg); Ulster Co, *Nic* (Woodr); Van Cort. Pk. (Woodr); **LI**: Flatbush (Woodr-AM). Under beech bark (Felt).

## SYNCHROA Newman

- 12529 *S. punctata* Newn. Ilion, May (NYS); Olcott, May-Aug (Dt); Buffalo (Z&R); Castile, *Brad* (Flet); Cincinnati, Ap (Flet,Dnd); Ithaca, Aug (CU); Trenton Falls (Newn); Albany, May (NYS); Catskills (Woodr); West Pt. (Robn); West Farms (Woodr-AM); **SI**, May-Aug (L&D); **LI**: Rockaway Beach, Je (Sf); Bellport, Jamaica, Jl, *Nic* (Woodr); Yaphank, Jl (Woodr). Larvae and pupae under maple bark in Je (Yg).

## EUSTROPHINUS Seidlitz

- 12531 *E. bicolor* Fab. Johnstown (NYS); Olcott, Aug-Dec (Dt); Buffalo (Z&R); Pike (NYS); Batavia, Jl (Kngt); E. Aurora, May, Oct (Flet,Dnd); Ithaca, Aug-Dec (Dt); Van Cort. Pk., Ap (Woodr); **SI**, Ap-Sep (L&D); **LI**: Queens, May (Eng); Jamaica, May (Lg); Rockaway, Jl (Woodr). Under bark of linden (Felt); on the fungi *Pleurotus sapidus* and *Polyphorus squamosus* in N.J. (Weiss).
- 12534 *E. confinis* Lec. West Pt. (Robn).

## EUSTROPHUS Illiger

- 12535 **E. tomentosus** Say. Johnstown, Gloversville, May, Aug (NYS); Newport (NYS); Syracuse, May, under bark (H); Olcott, Je, Aug (Dt); E. Aurora, Je (Flet,Dnd); Batavia, Je-Jl (Kngt); Buffalo (Z&R); **SI**, May (L&D).

## SYNSTROPHUS Seidlitz

- 12536 **S. repandus** Horn. Johnstown, Aug (NYS); Olcott, Je-Sep (Dt); E. Aurora, Aug (Flet,Dnd); Pike, Aug 15 (Frost); West Pt. (Robn).

## HOLOSTROPHUS Horn

- 12537 **H. bifasciatus** Say. Newport (NYS); Buffalo (Z&R); West Pt. (Robn); Peekskill, Mar, Jl, *Joutel* (Woodr); White Plains, Mar (Sf); **SI**: Clove Val., May, *Bischoff* (L&D); **LI**: Wyandanch (Sf); Jamaica (Woodr); Forest Pk., Yaphank (Lg); Bellport, Je, *Nic* (Woodr).

## HALLOMENUS Panzer

- 12540 **H. scapularis** Melsh. Buffalo (Z&R); Ithaca, Aug (Sf).  
 12541 **H. punctulatus** Lec. Ludlow, *Thompson* (Lg); **SI**, Jl (L&D).  
 12542 **H. serricornis** Lec. **LI**: Montauk Beach, Jl (Sf).

## ORCHESIA Latreille

- 12546 **O. castanea** Melsh. Wilmington, Jl-Sep (Dt); Old Forge, Jl (CU); Olcott, Jl-Sep (Dt); Buffalo (Z&R); Pike, Sep (NYS); Ithaca, Sep (CU); Bolton, Aug, *Thompson* (Lg); Nassau, Sep (NYS); Callicoon, Mosholu (Woodr-AM); West Pt. (Robn); Shokan, *Thompson* (Lg); Bronxville, Je (Woodr); **SI**, Je-Jl, Nov (L&D); **LI**: Flatbush, Jamaica (Woodr); Yaphank, Sep (Sf). On birch fungus, also linden (Felt); on *Trametes suaveolens* on willow (Weiss); on hard fungus on beech (Lg).  
 12547 **O. gracilis** Melsh. Cranberry L., Je 23 (H); Buffalo (Z&R); **LI**: Orient Pt., Je (NYS). On birch fungus (Felt).

## MICROSCAPHA LeConte

- 12548 **M. clavicornis** Lec. Mosholu (Sf); Bronxville, Jl (Woodr).

## PROTHALPIA LeConte

- 12550 **P. undata** Lec. Cranberry L., Je, *H* (Dt); Buffalo (Z&R); Big Ind. Val., Jl, *Pears* (Woodr); West Pt. (Robn); Ramapo (Sf).

## MELANDRYA Fabricius

- 12552 **M. striata** Say. Peru, Je (CU); Mt. Whiteface, Jl (Ds); Axton (M&H); Olcott, May-Jl (Dt); Pike, May (NYS); Batavia, Je (Kngt); Rock City, Je (CU); Ithaca, May (CU); Honeoye Falls, Je (Ds); McLean Bogs, May (CU); Windsor, Je (Not); Karner (NYS); Oliveria, Je (Ds); Peekskill (Sherm); West Pt., Ft. Montgomery, May-Je (Ds); Tarrytown, Jl (Woodr); Bronxville, May (Woodr); **SI**, May-Je (L&D); **LI**: Queens, Promised Land, Je (Sf).

## EMMESA Newman

- 12553 **E. labiata** Say. Mt. Whiteface, J1 (Woodr); Ithaca, Je (Vdyk); Wordsworth (?), J1 (NYS); Olivera, J1 (Woodr); West Pt. (Robn); **SI**, May-Je (L&D); **LI**: Valley Stream, May 16, *Schott* (Frost); Forest Pk., Je (Ds); Wading R., May, *Nic* (Woodr).
- 12554 **E. connectens** Newn. Mt. Whiteface (Woodr-AM), Je (Ds); Cranberry L., Je-J1 (H); Buffalo (Z&R); Big Ind. Val., Sep, *Pears* (Woodr); Debruce, Slide Mt., J1 (Sf); **LI**: Jamaica, J1, *Nic* (Woodr).

## AMBLYCTIS LeConte

- 12556 **A. praeses** Lec. Near Buffalo, type locality (Z&R); Cascade (Springville, Erie Co), J1 12, *MCV* (Frost); Ithaca, J1 (Sf).

## XYLITA Paykull

- 12557 **X. laevigata** Hellen. Mt. Whiteface, J1, *Quirs* (Woodr); Mt. Seward, Je (M&H); Cranberry L., J1 (Dt).

## ZILORA Mulsant

- 12560 **Z. canadensis** Hausen. Mt. Whiteface, J1, *Shoc* (Lg); Slide Mt., Je (Lg).

## RUSHIA Forel

- 12561 **R. longula** Lec. Buffalo (Z&R); E. Aurora, J1, *Dnd* (Dt); **LI**: Wyandanch, J1 (Sf).

## SPILOTUS LeConte

- 12564 **S. quadripustulatus** Melsh. Olcott, Je (Dt); Buffalo (Z&R); Rockland Co, Je, *Joutel* (Lg); Mosholu (Sf); **SI**, Je (L&D).

## SCOTOCHROA LeConte

- 12565 **S. atra** Lec. Mt. Whiteface, J1 (Sf); Buffalo (ANSP).

## ENCHODES LeConte

- 12567 **E. sericea** Hald. Cranberry L., J1 19 (H); Buffalo (Hald); Ithaca, Je-J1 (Dt). On maple (Felt).

## SERROPALPUS Hellenius

- 12568 **S. barbatus** Schall. Mt. Whiteface, J1 (Ds); Cranberry L., Je-Aug (H); Ithaca, Je (CU); Slide Mt., J1 (Sf); West Pt. (Robn). Enters wounds on living trees, common on blazed balsam, fir, and spruce (Felt).

## MYSTAXUS Kugelann

- 12569 **M. simulator** Newn. Herkimer Co (Lg); Buffalo (Z&R); Pike (NYS); W. Hebron, Je (Lg); Trenton Falls (Newn); Big Ind. Val., May, *Pears* (Woodr); West Pt. (Robn); Peekskill (Sherm); Katonah (AM); **SI** (AM); **LI**: Jamaica (Woodr). In rotting beech and maple stumps (Felt).

## DIRCAEA Fabricius

- 12570 *D. quadrimaculata* Say. Big Moose, J1 (NYS); Cranberry L., Je-J1 (H); Peru, Je (CU); Buffalo (Z&R); Batavia, J1-Sep (Kngt); Ithaca, J1 (CU); Catskills (Woodr); Olivera, Je (Ds); Florida, Aug, *FrostSW* (CU); West Pt. (Robn); **SI**, Je-Aug; reared from blue beech, Je (L&D); **LI**: Pinelawn, Aug (Ds); Yaphank, J1 (Ds,Sf). Under dead maple bark (Felt).

## PHLOEOTRYA Stephens

- 12571 *P. vaudoueri* Muls. West Pt. (Robn); Nyack, Je (Joutel); Cos Cob (Rbts); Bronxville, J1 (Woodr); **LI**: Bellport, Je (Nic).

## HYPULUS Paykull

- 12573 *H. concolor* Lec. West Pt. (Robn); Bronxville, J1 (Woodr).

## MICROTONUS LeConte

- 12576 *M. sericans* Lec. Buffalo (ANSP); Ithaca, J1 (CU); **SI**, Je (L&D); **LI**: Farmingdale, J1, *MorrowND* (CU).

## SYMPHORA LeConte

- 12577 *S. flavicollis* Hald. Newport, Je (NYS); Cranberry L., Je 11 (H); Olcott, Je, Aug (Dt); Montour Falls, Je (H); Peekskill, Je (Sherm); Catskills (Woodr); Mosholu (Sf); **SI**, Je (L&D); **LI**: Jamaica (Woodr).
- 12578 *S. rugosa* Hald. Buffalo (Z&R); Catskills (Sf,Woodr); **SI** (L&D).

## ANISOXYA Mulsant

- 12579 *A. glaucula* Lec. "NY" (Lg); Bronxville, J1 (Woodr); **LI**: Aqueduct, J1, *Shoe* (Lg).

## ALLOPODA LeConte

- 12580 *A. lutea* Hald. "NY" (Hald); Bronx Pk. (Dt); **LI**: Rockaway Beach (Woodr-AM).

## SCRAPTIA Latreille

- 12583 *S. sericea* Melsh. Buffalo (Z&R); Peekskill (Sherm); Mosholu (Sf).

## CANIFA LeConte

- 12585 *C. plagiata* Melsh. "NY" (Lg); **LI**: Wading R., May, *Nic* (Woodr).
- 12586 *C. pusilla* Hald. "NY" (Lg); Olcott, Je-J1 (Dt); Ithaca, Je-J1 (Dt); Bronxville, J1 (Woodr); **LI** (Woodr).
- 12587 *C. pallipennis* Lec. Ludlow, *Thompson* (Lg); **SI**, Je (L&D).
- 12588 *C. pallipes* Melsh. Cranberry L., Je-J1 (H); Ithaca, May-Je (CU); Windsor, Je (Not); Schoharie (Not); Middletown, J1 (CU); Ramapo, May (Ds); Ludlow, *Thompson* (Lg); Peekskill, *Thompson* (Lg); Catskills (Woodr); Mosholu (Sf); **SI**, J1 7 (L&D); **LI**: Bellport, Aug, *Nic* (Woodr).



## OSPHYA Illiger

- 12589 *O. varians* Lec. Olcott, Je (Dt); Buffalo (Z&R).

## MYCTERUS Clairville

- 12594 *M. scaber* Hald. Gloversville, Aug (NYS); Ithaca, Jl-Aug (Dt); Karner, Je (NYS); Washington Co (Lg); Cairo, Jl (Lg).  
 12595 ?*M. concolor* Lec. Newport, Je (NYS); Olivera, Je, three specimens doubtfully placed (Ds).

## FAMILY PTINIDAE

## GIBBIUM Scopoli

- 12600 *G. psylliodes* Czemp. NYC, in Produce Exchange, Ds (Joutel).

## MEZIUM Curtis

- 12601 *M. americanum* Lap. NYC (Fall); "NYC", Aug, Dec (Sf).

## TRIGONOGENIUS Solier

- 12604 *T. globulum* Sol. NYC (Ds).

## PTINUS Linnaeus

- 12610 *P. villiger* Reit. "NY" (Fall); LI: Jamaica (Sf).  
 12612 *P. brunneus* Dufts. Axton, Je (M&H); Honeoye Falls, F. Mather (Rly); SI (L&D).  
 12613 *P. fur* L. WHITE-MARKED SPIDER-BEETLE. Buffalo (Z&R); Waterville, May, I. M. Hawley (Kngt); SI, Ap (L&D); LI: Rockaway, May, Yaphank (Sf); Orient, Lath (NYS).  
 12625 *P. bimaculatus* Melsh. "NY" (Fall).  
 12629 *P. quadrimaculatus* Melsh. Middleville, Jan, in green calfskins (Lint).

FAMILY ANOBIIDAE<sup>49</sup>

## SUBFAMILY ANOBIINAE

## EUCRADA LeConte

- 12639 *E. humeralis* Melsh. Newport (NYS); Cranberry L., Jl (Drk); Wells, Jl (NYS); Buffalo (Z&R); Batavia, Je (Kngt); McLean, May (CU); Greenwood L., Je (Sf); West Pt. (Robn); Ft. Montgomery, May (Ds); Peekskill, Je (CU); Bronx, Je (Lg); SI, May, on dead oak (L&D); LI: Westbury (Champlain). On beech.

## XESTOBIUM Motschulsky

- 12641 *X. rufovillosum* DeG. Cranberry L., Jl (H); NYC (Palm). On black spruce (Felt).

<sup>49</sup> The manuscript for this family has been checked by H. C. Fall.

## ERNOBIUS Thomson

- 12649 **E. mollis** L. Windsor, Je (Not); Karner, May (NYS); Albany, Je (NYS); Nassau, Je (NYS); NYC vic. (Lg). On hard pine (Felt).  
 [12664 **E. filicornis** Lec. Coast region from Mass. to Va. (Fall).]  
 12665 **E. granulatus** Lec. West Pt. (Robn). On pine (Felt).  
 [12667 **E. luteipennis** Lec. Coast region from Mass. to Va. (Fall). On pine (Felt).]  
 12668 **E. tenuicornis** Lec. Mass. to Pa.; Karner, May (NYS). On pine (Felt).

## OLIGOMERUS Redtenbacher

- 12684 **O. sericans** Melsh. NY (Fall); **SI**, Aug 6 (L&D).  
 12686 **O. obtusus** Lec. Buffalo (Fall); Albany (Fall); Catskills, Je, *Pears* (Nic); **SI** (Fall); **LI** (Fall).  
 12688 **O. alternans** Lec. **LI**: Mastic, Je, as *alternatus* (Nic).

## SITODREPA Thomson

- 12689 **S. panicea** L. DRUG-STORE BEETLE. Castile, *Brad* (Flet); Geneva, JI (NYS); Buffalo (Z&R); Albany, May, Je (NYS); Valley Falls, May (NYS); Chatham, Je, *Branion* (NYS); Van Cort. Pk., Sep (Joutel); NYC, in red pepper (Lutz); **SI** (L&D); **LI**: Brooklyn (Sf). A few years ago this species became so numerous in a storage warehouse in NYC that thousands were swept from the pavement in front of the store (Lg).

## TRICHODESMA LeConte

- 12695 **T. gibbosa** Say. Syracuse (B&S); Buffalo (Z&R); Pine L., Je, on hickory (Ds); Mosholu (Sf); Van Cort. Pk., *Pears* (Nic); **SI** (L&D). On elm (Felt).

## HADROBREGMUS Thomson

- 12705 **H. carinatus** Say. Newport, Je (NYS); Cranberry L., Je 23 (H); Spencerport, Dec 5 (Vdyk); Buffalo (Z&R); Avon, Je 19 (Cls); Ithaca (Palm); Schoharie (Not); Albany, JI (NYS); Nassau, JI (NYS); Olivera, JI (Sf); West Pt. (Robn); Ludlow, Je (Thompson); **SI** (L&D); **LI**: Bellport, Je (Nic). On hickory (Felt).  
 12706 **H. linearis** Lec. Buffalo (Z&R); Peekskill (Sherm); West Pt. (Robn).  
 12707 **H. pusillus** Fall. Cranberry L., JI, maple (H); Ithaca (Fall).  
 12709 **H. umbrosus** Fall. "NY" (Fall).

## COELOSTETHUS LeConte

- 12712 **C. notatus** Say. Buffalo (Z&R); Ithaca (Lg); West Pt. (Robn); **LI**: Yaphank, Je (Sf). On oak (Felt).

## TRYPOPITYS Redtenbacher

- 12717 **T. sericeus** Say. Newport, Je (NYS); Buffalo (Z&R); Cattaraugus Co, JI (Ds); Ithaca, not rare at light (*Fbs*); Albany, Aug (NYS); Nassau, JI (NYS); Ludlow (Thompson); NYC and vic. (Palm); Bronx Pk. (Sf); **SI** (L&D); **LI**: Greenport, Aug (Sf).

**XYLETINUS** Latreille

- 12734 **X. peltatus** Harr. Nassau, J1 (NYS); Catskills, Je, *Pears* (Nic); Bronx (Joutel).  
 12735 **X. harrisi** Fall. NY (Fall); Van Cort. Pk., Aug (Sf).  
 12736 **X. fucatus** Lec. Buffalo (Rein).  
 12738 **X. lugubris** Lec. West Pt. (Robn); NYC vic. (Blanchard).

**LASIODERMA** Stephens

- 12742 **L. serricorne** Fab. NY (Fall); Castile, *Brad* (Flet); Elmira, on tobacco (CU Econ); Albany, Jan (NYS); Middletown, on tobacco (CU Econ); NYC, on cigars (Cy); **SI**, in stored paprika (L&D); **LI**, Feb (Sf).  
 12743 **L. falli** Pic. Peekskill, *Sherm* (Fall).

**PETALIUM** LeConte

- 12752 **P. seriatum** Fall. **SI** (Fall).  
 12754 **P. bistriatum** Say. **LI**: Aqueduct, J1 (Sf).

**EUPACTUS** LeConte

- 12761 **E. nitidus** Lec. Catskills, Je (Sf); Peekskill, *Sherm* (Lg).-

**CATORAMA** Guérin-Ménéville

- 12786 **C. dichroum** Fall. Greenwood L., Je (Sf).  
 12802 **C. vexatum** Fall. NY (Fall).  
 12804 **C. grave** Lec. Buffalo (Z&R); NYC (Rbts); **SI**, Je 26 (L&D); **LI** (Fall).

**PROTHECA** LeConte

- 12837 **P. hispida** Lec. NY (Lec).  
 12838 **P. puberula** Lec. Keene Valley, Je (Not); Buffalo (Z&R).

**DORCATOMA** Herbst

- 12839 **D. dresdensis** Hbst. Cranberry L., Je-J1 (H); Valley Falls, May (NYS).  
 12841 **D. setulosum** Lec. Newport, Je (NYS); Ithaca, Je (NYS). In woody fungus on birch (Felt).

**EUTYLISTUS** Fall

- 12843 **E. intermedius** Lec. Valley Falls, May (NYS).  
 12845 **E. tristriatus** Lec. "NY"? (Chitt, Fall).

**CAENOCARA** Thomson

- 12852 **C. scymnoides** Lec. Nassau, May (NYS); Poughkeepsie, Je (NYS).  
 12855 **C. oculata** Say. Cranberry L., Je 9, from *Betula* (H); Newport (NYS); Buffalo (Z&R); Ithaca (Lg); West Pt. (Robn); **SI**, May, Aug, Nov (L&D).

## PTILINUS Geoffroy

- 12864 **P. ruficornis** Say. Saranac Inn, injuring birch and maple floors (Felt); Newport, Je (NYS); Cranberry L., Je-Jl, common in seaweed and dead beech (H); Northampton, Je (NYS); Clay, in timbers, Jl (CU); Buffalo (Z&R); Westfield, Je (NYS); West Pt. (Robn); NYC (Palm). Beech, maple, cherry, and ironwood (Felt).

## FAMILY BOSTRICHIDAE

## ENDECATOMUS Mellie

- 12870 **E. reticulatus** Hbst. West Pt. (Robn); **SI**, in *Polyporus gilvus* (L&D).  
 12871 **E. rugosus** Rand. Newport, Je (NYS); Johnstown, Aug (NYS); Buffalo (Z&R); Karner, Mar (NYS); vic. NYC (AM); **LI**: Flatbush, Nov (Sf).

## SCOBICIA Lesne

- 12873 **S. bidentata** Horn. West Pt. (Robn); **SI**, Je (L&D); **LI**: Jamaica, Je *Pears* (Nic); Long Island City, Aug, *Sz* (NYS); Flatbush, Pine-lawn, Je (Sf).

## XYLOBIOPS Casey

- 12877 **X. basillare** Say. Syracuse, in hickory (Rhoades); Albany, Je (NYS); West Pt., Je, beating scrub pine (Robn); Bronx Pk. (Sf); **LI**: Rockaway Beach, Je (Sf); Long Beach, May (Sf). Makes short curved galleries in the branches of deciduous trees (Felt).

## AMPHICERUS LeConte

- 12888 **A. bicaudatus** Say. APPLE TWIG-BORER. Buffalo (Z&R); **LI**: Long Beach, Je (Sf).

## LICHENOPHANES Lesne

- 12900 **L. truncaticollis** Lec. Syracuse, in hickory (Rhoades); Buffalo (Z&R).

## BOSTRICHUS Geoffroy

- 12902 **B. bicornis** Web. Syracuse, in hickory (Rhoades); Buffalo (Z&R); Peekskill (CU); Mosholu (Sf); **SI**, Je 26 (L&D); **LI**: Rockaway Beach, Je (Ds); Yaphank, Je (Sf). On oak, elm, and apple (Felt).  
 12903 **B. angustus** Csy. "NY" (Sf).

## STEPHANOPACHYS Waterhouse

- 12908 **S. substriatus** Payk. Albany, Je (NYS).  
 12913 **S. rugosus** Oliv. Axton, Je (M&H); Buffalo (Z&R); West Pt. (Robn); **SI**, May (L&D); **LI**: Cold Sp. Harb. (Sf).  
 12915 **S. hispidulus** Csy. **LI**: Long Beach, May (Sf).  
 12916 **S. densus** Lec. NY (Lec); **LI**: Wyandanch, May (Sf).  
 12918 **S. cribratus** Lec. **LI**: Central Pk., Ap, about cut pine (Eng); Orient Pt., May, *Lath* (NYS); Coney I., May, Long Beach, Je (Sf).  
 12919 **S. punctatus** Say. Sterling L., May (Sf); West Pt. (Robn); Peekskill, vic. NYC (AM); **LI**: Wyandanch (Sf); Central Pk., Je (Sf).

## RHIZOPERTHA Stephens

- 12921 *R. dominica* Fab. Karner, Je (NYS).

## FAMILY LYCTIDAE

## LYCTUS Fabricius

(*Trogoxylon* LeConte)

- 12932 *L. punctatus* Lec. "NY", Jl (Lec).  
 12934 *L. parallelopipedus* Melsh. Buffalo, Oct, in black walnut lumber (Felt);  
 LI (Hopk).  
 12938 *L. opaculus* Lec. Westfield, Je (NYS); Pine I. and West Pt., Je (Ds);  
 Mosholu (Sf); SI, Je (Hopk); LI: Jamaica, May (NYS); Rockaway  
 Beach, Je (Sf).  
 12940 *L. planicollis* Lec. Hudson, May, destroying shovel handles (Cy); SI, bor-  
 ing in maple in Mus. SI Inst. Arts and Sci., adult emerged Ap (L&D).  
 12943 *L. linearis* Goeze. Hudson, May, Grahamville, Je (NYS); Lowville, in  
 stored wood (Ds); West Pt. (Robn).

## MINTHEA Pascoe

- 12945 *M. stichothrix* Reit. "NY" (Kraus-Horn Coll.).

## FAMILY SPHINDIDAE

## SPHINDUS Chevrolat

- 12949 *S. americanus* Lec. Buffalo (Z&R); Ithaca, Aug 25 (Fbs-CU);  
 SI, Je (L&D).

## FAMILY CISIDAE

## SUBFAMILY CISINAE

## CIS Latreille

- 12960 *C. falli* Blatch. SI, Oct 8, under bark of dead tree (L&D).  
 12966 *C. julichi* Dury. NYC (Dury), type locality.  
 12972 *C. fuscipes* Mell. Newport, Je (NYS); Cranberry L., Je, in *Polyporus*  
*lucidus* (H); Syracuse, in hickory (B&S); Buffalo (Z&R); Westfield,  
 May (Not); Glen (Lint), as *fulvipes* (Mell); Albany, Ap (NYS);  
 West Pt. (Robn); SI, Sep (L&D); LI: Jamaica (Pears).  
 12974 *C. pistoria* Csy. Cranberry L., Je 25, in decaying fungi (H).  
 12979 *C. creberrima* Mell. Buffalo (Z&R); Syracuse, from dead hickory (B&S);  
 West Pt. (Robn); Mosholu (Sf).  
 12981 ?*C. horridula* Csy. Albany, Ap (NYS).  
 12988 *C. curtula* Csy. "NY" (Csy), type locality; West Pt., Ap (Robn).

## ORTHOCIS Casey

- 12992 *O. punctata* Mell. Schoharie (Not); Bronx Pk. (Sf); SI, Mar, from  
 dead grapevine (L&D).



**XESTOCIS** Casey

- 12997 **X. levetti** Csy. Newport, J1 (NYS); Cranberry L., Je-J1, in fungus (H); Syracuse, May, in bracket fungus (H); Castile, *Brad* (Flet); Westfield, May (Not); Mosholu (Sf); vic. NYC (AM); **SI**, May, from fungus (L&D).
- 12998 **X. davisi** Dury. **SI**, type locality (L&D).

**BRACHYCIS** Casey

- 13009 **B. brevicollis** Csy. Ithaca (Csy), type locality. In the fungus *Pleurotus ostreatus* in N. J. (Weiss).

**PLESIOCIS** Casey

- 13010 **P. cribrum** Csy. Albany, Aug (Frost). Described from southern Calif.

**SULCACIS** Dury

- [13011 **S. lengi** Dury. Found in Bennington Co, Vt., and Mercer Co, N. J., and sure to occur in NY.]

**ENNEARTHON** Mellie

- 13018 **E. thoracicorne** Ziegl. Ithaca, Nov (NYS); Nassau, May, Schaghticoke, Aug (NYS); West Pt. (Robn); Mosholu (Sf); vic. NYC (AM); **SI**, Je, Aug, from *Polyporus versicolor* (L&D); **LI**: Little Neck, Mar (Schott); Orient, Mar (Ds).

**CERACIS** Mellie

- 13030 **C. sallei** Mell. Valley Falls, Ap (NYS); West Pt. (Robn); Mosholu (Sf); **SI**, Aug (L&D). According to Weiss, this species breeds in the fungus *Fomes applanatus*.

SUBFAMILY **OROPHIINAE****OCTOTEMNUS** Mellie

- 13037 **O. laevis** Csy. Syracuse (B&S); Catskills, Je, *Pears* (Nic); Bronx Pk. (Sf); "NY", type locality.

FAMILY **SCARABEIDAE**SUBFAMILY **COPRINAE****CANTHON** Hoffmansegg

- 13047 **C. vigilans** Lec. **LI** (Jn).
- 13048 **C. laevis** Drury. Buffalo (Z&R); Albany, Je (Lint); West Pt. (Robn); Bronx Pk. (Sf); **SI**, formerly common, Aug 19, 1903 (Woodr), also 1910 and 1914 (L&D); **LI**: Flatbush, Sep (Eng).
- 13052 **C. viridis** Beauv. West Pt., Je (Sf); **SI**, Aug 7 (L&D); **LI**: Yaphank, J1 7 (Ds).

## CHOERIDIUM Geoffroy

- 13057 *C. histeroides* Web. Buffalo (Z&R); **SI**, Je, on dead fish (L&D); **LI**: Yaphank, Jl (Ds).

## PINOTUS Erichson

- 13059 *P. carolinus* L. West Pt. (Robn); **SI**, Je (L&D); **LI**: Bellport, Aug (Nic); Riverhead (Ds).

## COPRIS Geoffroy

- 13062 *C. minutus* Drury. Buffalo (Z&R); West Pt. (Robn); **SI**, Ap, Sep (L&D); **LI**: Amagansett, Sep (Eng); Wyandanch, May (Sf); Orient, *Lath* (NYS).  
 13065 *C. tullius* Oliv. (*anaglypticus* Say). Adirondacks (Felt); Hope, Aug (NYS); Gloversville, May, Oswego, Je (NYS); Pike, Sep (NYS); E. Aurora, May, Sep, common in burrows beneath manure, also at light (Dnd); Buffalo (Z&R); Ithaca, Je-Aug (Dt); West Pt. (Robn); **SI**, May-Sep (L&D); **LI**: Orient Pt., Je (Ds); Brooklyn, May (Eng).

## PHANAEUS MacLeay

- 13072 *P. carnifex* L. West Pt. (Robn); Oscawana Hgts., Putnam Co, May (Flet); Bronx Pk. (Sf); **SI**, Je-Sep (L&D); **LI**: Bellport (Nic); Montauk, Sep (Ds, Ang).

## ONTHOPHAGUS Latreille

- 13080 *O. hecate* Panz. Axton, Je (M&H); Cranberry L., Jl 24 (H); Potsdam (Houghton); Buffalo (Z&R); E. Aurora, Aug-Sep, scarce (Dnd); West Pt, May (Not); Ithaca, May-Aug (CU); Ringwood, McLean, May-Jl; Windsor, Je (Not); DeBruce, Sep (Ds); West Pt., Je (Robn); White L. (AM); **SI**, May-Aug (L&D); **LI**: Wyandanch, May, Yaphank (Sf); Orient, Je (Ds).  
 13082 *O. orpheus* Panz. West Pt., Je, *Robn* (Ds).  
 13084 *O. janus* Panz. Buffalo (Z&R); Ithaca, Jl-Aug (Vdyk-CU); West Pt., Je (Robn); White Plains (Sq); **SI**, Jl-Aug (L&D); **LI**: Yaphank, Jl (Eng); Wading R. (Sf); Flatbush (AM); Orient, *Lath* (NYS).  
 13084a *O. janus* var. *striatulus* Beauv. **SI**, Jl-Sep (L&D); **LI**: Wyandanch (Sf); Flatbush, *Zab* (AM).  
 13086 *O. pennsylvanicus* Harold. E. Aurora, Boston, Je, Aug, scarce (Dnd); Windsor, Je (Not); West Pt. (AM); **SI**, Aug (L&D); **LI**: Wyandanch, May (Sf); Flatbush, *Zab* (AM).  
 13087 *O. cribricollis* Horn. **LI**: Yaphank (Sf).  
 13088 *O. nuchicornis* L. Cranberry L., Je-Jl (H); **LI**: E. New York, May (Shoe); Rockaway Beach, May (Ds); New Lots, May (Shoe).  
 13090 *O. tuberculifrons* Harold. **LI**: Wyandanch (Sf); Greenport, Aug (Eng).  
 — *O. ovatus* L. "NY" (Fitch) (ANSP). A common European species which may have been introduced.

## AEGIALIA Latreille

- 13102 *A. conferta* Horn. Rochester (Moore).

## SUBFAMILY APHODIINAE

## APHODIUS Illiger

- 13107 **A. fossor** L. Axton, Je (M&H); Cranberry L., Je 30 (H); Syracuse (H); Olcott, May-Sep (Dt); Castile, May, *Brad* (Flet); Ithaca, May-Jl (Vdyk, Dt); McLean, May-Sep (Dt); Windsor, Je (Not); E. Jewett, Aug (Ds); Peekskill, May-Je (Sherm); West Pt. (Robn); Katonah (Sherm, Dt, CU); West Pt., Jl (Eng); **SI**, Je (L&D); **LI**: Rockaway Beach, May (Ds); Long Beach, Je (Eng); Wyandanch, May (Sf).
- 13110 **A. erraticus** L. Wilmington, Jl (Shoe); Cranberry L., Je (H); Syracuse, May (H).
- 13111 **A. haemorrhoidalis** L. Cranberry L., Jl 3 (H); **LI**: Wading R., Je (Sf, Schott); Huntington, Je (Schott).
- 13119 **A. fimetarius** L. Keene Val. (Lint); L. Pleasant, Jl (Lint); Potsdam (Houghton); Cranberry L., Jl (Drk); Syracuse, Ap-May (H); Buffalo (Z&R); Batavia, Jl-Sep (Kngt); Westfield, May (Not); Castile, *Brad* (Flet); Geneva, May (Lint); Ithaca, Ap-Oct, McLean Bogs, Aug (CU); Windsor, Je (Not); Bangall, Sep (Eng); West Pt. (Robn); Nyack (AM); White Plains, Ap (Sq); **SI**, Ap-Jl (L&D); **LI**: Jamaica, Flatbush (AM); Orient, *Lath* (NYS).
- 13123 **A. putridus** Hbst. Syracuse, May, on cattle dung (H); E. Aurora, Jl, Sep, scarce (Dnd).
- 13127 **A. ruricola** Melsh. Axton, Je (M&H); Potsdam (Houghton); Olcott, Je, Aug (Dt); Westfield, May (Not); Cortland Co, Jl, rare (Dnd); Ithaca, Je-Aug (Dt-CU); McLean (Dt); Schoharie (Not); West Pt. (Robn); **SI** (L&D); **LI**, Jl (Eng).
- 13131 **A. granarius** L. Honeye Falls, Je (Ds); Rochester Jct., Je, *Leon* (Dt-CU); Westfield, May (Not); Batavia, Je (Ds); Erie Co, May-Jl, common (Dnd); Castile, May, *Brad* (Flet); Ithaca, Taughannock Falls, Mar-Je (Dt-CU); Schoharie (Not); West Pt. (AM); Nyack (AM); Ramapo, Je (Ds); NYC, Feb (Dt-CU); **SI**, Mar-Aug (L&D); **LI**: Flatbush (AM); Hempstead Plains, Ap (Eng); Central Pk., Yaphank, Ap (Eng); Orient, *Lath* (NYS).
- 13132 **A. vittatus** Say. Batavia, Jl (Kngt); E. Aurora, May, Jl, common (Dnd); Ithaca, May, Jl (Dt-CU); **SI** (L&D); **LI**: Long Beach, May (Eng).
- 13147 **A. lutulentus** Hald. "NY" (Hald-ANSP).
- 13159 **A. rubeolus** Beauv. New City, Jl, *Carn* (Frost); **SI**, Je (L&D).
- 13162 **A. stercorosus** Melsh. Syracuse, May, on cattle dung (H); E. Aurora, Jl-Sep, frequent, Sep (Dnd); Peekskill, Jl, at light (Sherm); West Pt. (Robn); Ramapo, Je (Ds); **SI**, Je (L&D).
- 13170 **A. consentaneus** Lec. Cortland Co, Jl, one (Dnd).
- 13173 **A. phaleroides** Horn. **LI**: Coney I. (Horn); Bellport, Jl (Nic); Rockaway (AM).
- 13180 **A. bicolor** Say. Olcott, Oct (Dt); Buffalo (Z&R); E. Aurora, Aug-Sep, common (Dnd); Castile, May, *Brad* (Flet).
- 13182 **A. serval** Say. "NY" (Fitch).
- 13184 **A. distinctus** Müll. Potsdam (Houghton); Syracuse, May, on horse dung (H); Olcott, Mar-Apr, Oct (Dt); Buffalo (Z&R); E. Aurora, Oct, common (Dnd); Castile, May, *Brad* (Flet); Ithaca, Ap-May (Dt-CU); Spencer, Mar-Apr, Oct (Dt); West Pt. (AM); **SI**, Ap, Oct,

- found once in a dead blacksnake (L&D); **LI**: Rockaway Beach, Ap (Eng); Yaphank, May (Eng); Forest Pk., Mar (Martin); Orient, *Lath* (NYS).
- 13186 **A. leopardus** Horn. E. Aurora, Sep (Dnd); Ithaca, Ap (Dt-CU); West Pt., Sep (Robn).
- 13189 **A. terminalis** Say. **SI** (Sf).
- 13192 **A. rufipes** L. E. Aurora, under manure, Jl (Dnd); Ithaca, Jl, *Yuasa* (Vdyk).
- 13193 **A. depressus** Kug. "NY" (Horn); Cranberry L., Je 17 (H).
- 13198 **A. rubripennis** Horn. Wilmington, Aug (Dt); Rock City, Je (Dt-CU); Slide Mt. (Shoe).
- 13201 **A. femoralis** Say. Syracuse, Oct (Drk); Buffalo (Z&R); Westfield, May (Not); West Pt. (Robn).
- 13202 **A. prodromus** Brahm. Axton, Je (M&H); Potsdam (Houghton); Syracuse, Ap 9, very abundant (H); Westfield, May (Not); Ithaca, Ap-May (Dt-CU).
- 13204 **A. oblongus** Say. Ithaca, Ap 23, 1882 (Dt-CU).

## OXYOMUS Castelnau

- 13210 **O. silvestris** Scop. (*porcatus* Fab.). Peekskill, Ap (Sherm); West Pt. (Robn); White Plains, Mar (Sq); vic. NYC (AM); **SI**, Ap-May, Dec (L&D); **LI**: Flatbush, Je-Jl (Nic).

## ATAENIUS Harold

- 13216 **A. abditus** Hald. Westfield, May (Not).
- 13220 **A. imbricatus** Melsh. Bronx Pk. (Sf); **SI** (L&D).
- 13226 **A. gracilis** Melsh. Buffalo (Z&R); E. Aurora, Oct, rare (Dnd); **LI**: Jamaica, May, *Pears* (Nic).
- 13231 **A. strigatus** Say. Windsor, Je (Not); "NY" (Fitch), as *Aphodius*. Probably belongs here (Fall).
- 13232 **A. stercorator** Fab. Buffalo (Z&R); Westfield, May (Not); vic. NYC (AM).
- 13233 **A. cognatus** Lec. Potsdam (Houghton); Olcott, Ap-Sep (Dt); Syracuse, May (H); Ithaca, Ap-Sep (Dt); Peekskill, May (Fall); West Pt. (Robn); **SI** (L&D); **LI**: Flatbush (Sf).

## DIALYTES Harold

- 13237 **D. truncatus** Melsh. **LI**, Aug (Schott).
- 13239 **D. striatulus** Say. E. Aurora, Sep, one beneath dung (Dnd); Ithaca, Oct (Dt-CU); Windsor, Je (Not).

## PSAMMOBIUS Heer

- 13240 **P. cruentus** Harold. "NY"? (Horn-ANSP).
- 13242 **P. aegialioides** Hald. "NY" (Hald-ANSP).

## RHYSSEMUS Mulsant

- 13251 **R. scaber** Hald. Peekskill, May (Sherm); **LI**: Rockaway Beach (Schott).

## PLEUROPHORUS Mulsant

- 13255 *P. caesus* Creutz. "NY" (Fall); Olcott, Je, Oct-Nov (Dt).  
 13256 *P. parvulus* Chev. **LI**: Jamaica (Ds), as *nanus* DeG.

## SUBFAMILY GEOTRUPINAE

## ODONTAEUS Klug

- 13285 *O. corniger* Melsh. Buffalo (Z&R); Catskills, Je (Nic); Ft. Montgomery, Jl (Schott); **SI** (L&D); **LI**: Bellport, Je (Nic); Yaphank, Jl (Ds); Amagansett, Oct (Eng).  
 13286 *O. filicornis* Say. Cranberry L., Je (H); Indian Falls, Jl, always at light, scarce (Dnd); Windsor, Je (Not); **LI** (Jn).  
 13287 *O. obesus* Lec. Jay, Jl, *Britton* (Frost); Ithaca, May (Kngt). Fall questions these records, since this is a California species.

## BOLBOCEROSOMA Schaeffer

- 13288 *B. farctum* Fab. **SI**, May 6, Jl 14 (L&D); **LI**: Forest Pk., Aug (Eng).  
 13288a *B. farctum* var. *tumefactum* Beauv. "NY" (Sf).

## EUCANTHUS Westwood

- 13289 *E. lazarus* Fab. Peekskill, Jl (Sherm); West Pt. (Robn); **SI** (L&D); **LI**: Rockaway, Je (Eng); Far Rockaway (Jn).

## GEOTRUPES Latreille

- 13290 *G. balyi* Jek. Cranberry L., Jl (H); Ithaca, Sep (CU); Ringwood, May-Sep (Dt); Catskills, Aug, *Pears* (Nic); Yankee L., Wurtsboro, Sullivan Co, Sep (Ds); Carmel, Aug (Sf); Brant L., Aug (Doll); West Pt. (Robn); **LI**: Yaphank, Jl, Oct (Ds); Melville, Oct (Schott).  
 13291 *G. horni* Blanch. West Pt. (Robn); **SI** (L&D); **LI**: Deep Pond, Wading R., Aug (Ds); Wyandanch, Aug (Schott); Yaphank, Oct (Eng).  
 13293 *G. blackburni* Fab. Buffalo (Z&R); Sullivan Co, Sep (Ds); Bronx Pk., Ap (Shoe); **SI**, Aug, Oct (L&D); **LI**: Brooklyn (Jn).  
 13294 *G. egeriei* Germ. Adirondacks (Felt); Buffalo (Z&R); **SI**, May, Aug-Sep (L&D); **LI**: Flatbush, Aug, Yaphank, Oct (Eng).  
 13298 *G. semiopacus* Jek. Buffalo (Z&R); E. Aurora, Aug-Sep (Dnd); Ithaca, Sep (Dt); DeBruce, Sep (Ds); West Pt (Robn).  
 13299 *G. splendidus* Fab. Buffalo (Z&R); Ithaca, Aug (Dt); Windsor, Je (Not); Peekskill, in fungus (Sherm); Catskills, Aug (Ds); Pine I., Je (Ds); West Pt., Je (Ds, Sf); **SI**, May-Oct (L&D); **LI**: Amagansett, Sep, Yaphank, Oct (Ds); Wyandanch, Jl (Schott).  
 13267 *Ochodaenus biarmatus* Lec. (Subfamily Ochodaeinae.) Buffalo (Z&R). This is probably a misdetermination, as the range is from Kansas to Arizona (Fall).



## SUBFAMILY GLAPHYRINAE

## AMPHICOMA Latreille

- 13313 *A. lupina* Lec. **SI**, Sep (Sf, L&D); **LI**: Rockaway (Dt).  
 13315 *A. vulpina* Hentz. Lava, J1 (Eng); Van Cort. Pk., *Pears* (Nic).

## SUBFAMILY ACANTHOCERINAE

## CLEOTUS Germar

- 13320 *C. aphodioides* Ill. Buffalo (Z&R). Leng queries this.

## SUBFAMILY TROGINAE

## TROX Fabricius

- 13328 *T. scabrosus* Beauv. "NY" (Lec); **SI**, on seashore (L&D).  
 13329 *T. monachus* Hbst. Peekskill, Ap (Sherm).  
 13330 *T. asper* Lec. **LI**: Calverton, Sep (Eng).  
 13331 *T. suberosus* Fab. **SI**, Je, seashore (L&D); **LI**: Bellport, Je (Nic); Rockaway, J1, Orient, J1, Sep (Ds); Promised Land, Yaphank, Je (Eng).  
 13333 *T. tuberculatus* DeG. **LI**: Montauk Pt. (Eng).  
 13336 *T. erinaceus* Lec. Buffalo (Z&R); **SI**, Feb, Ap, May, in owl pellets, and Sep, under dead rabbit (L&D); **LI**: Bellport, Aug (Nic); Yaphank, May, Oct (Sf, Eng); Flatbush, May (Eng).  
 13337 *T. capillaris* Say. Cranberry L., J1 (Drk); Buffalo (Z&R); Gowanda, May (Dnd); West Pt. (Robn); **SI** (L&D).  
 13338 *T. unistriatus* Beauv. Cranberry L., Je-J1 (H); Buffalo (Z&R); Ithaca, J1 (CU); New Paltz (Lint); Peekskill, Ap (Sherm); **SI**, Je, Aug (L&D); **LI**: Bellport, Aug (Nic); Bedford Pk., Flatbush, J1 (Eng).  
 13339 *T. sordidus* Lec. West Pt. (Robn); **SI**, Ap (L&D); **LI**: Bellport, Je (Nic).  
 13340 *T. insularis* Chev. (*foveicollis* Harold). West Pt. (Robn); **SI**, Aug (L&D); **LI**: Yaphank, J1, Flatbush, May (Eng).  
 13341 *T. terrestris* Say. Peekskill, Ap (Sherm); West Pt. (Robn); **SI**, J1 (L&D); **LI**: Aqueduct, Sep (Ds); Flatbush, May (Sf).  
 13342 *T. aequalis* Say. Cortland Co, Je, under bird carcass (Dnd); West Pt. (Robn); **SI** (L&D); **LI**: Yaphank (Eng).  
 13344 *T. scaber* L. Buffalo (Z&R); E. Aurora, Je (Dnd); Catskills, May, *Pears* (Nic); West Pt. (Robn); New City, Mar (Carn, Frost); **SI**, Ap-May, in owl pellets (Ds) and sometimes at light (L&D); **LI**: Flatbush, May (Eng).  
 13346 *T. laticollis* Lec. "NY" (Lec).

## SUBFAMILY MELOLONTHINAE

## SERICA MacLeay

- 13354 *S. vespertina* Gyll. Buffalo (Z&R); Gowanda, Allegany Pk. (Dnd); Ithaca, May-Je (Daw); Windsor, Je (Not); West Pt. (Robn); **SI**, Ap-J1 (L&D); **LI**: Orient, Je, *Lath* (Ds); Flushing, Mar (Ds).

- *S. cucullata* Daw. Cranberry L., Je-Jl (H); Saranac L., Sep (Daw); Peru, Je (Daw); Ithaca, May-Je, Aug, McLean, May (Daw); Sullivan Co, *Shaler* (Daw).
- 13355 *S. georgiana* Lg. Buffalo (Daw); Ithaca, May (Daw); Hudson, Ramapo (Daw); Bronx Pk., *Bt*, NYC (Daw); **SI**, *Bt* (Daw); **LI**: Brooklyn (Daw).
- 13356 *S. evidens* Blatch. **SI**, May, Aug (L&D).
- *S. lecontei* Daw. Peru, Wilton, May, Ithaca, Ap-Jl, **SI**, paratype (Daw).
- 13357 *S. intermixta* Blatch. Peru, Aug, *Mix & Everett* (Daw); Ithaca, (Ap-Jl (Daw).
- 13361 *S. iricolor* Say. Ithaca, May, West Pt. (Robn); Peekskill, Ft. Montgomery, May, Bronx Pk., *Bt* (Daw); **SI**, Je (L&D); **LI**: Central Pk., Ap (Eng); Wading R., May, Nissequogue, Je (Ds); Wyandanch, May (Sf); Yaphank, Jl, Pinelawn, Je (Eng).
- *S. elusa* Daw. Cranberry L., Je-Jl, Ithaca, Ap-May, Taughannock Falls, Ap (Daw).
- *S. mystacea* Daw. Hudson, *Dbl*, Bronx Pk., Ap (Daw).
- 13363 *S. tristis* Lec. Peru, May-Je, Ithaca, Je (Daw); **LI**: Orient, *Lath* (NYS).
- 13364 *S. sericea* Ill. Wilmington, Jl (Daw); Buffalo (Z&R); E. Aurora, Mar, hibernating, Niagara Co, Jl (Dnd); Castile, May, *Brad* (Flet); Ithaca, Ap-Jl (Daw); Nyack (Daw); West Pt. (Robn); Mosholu, May (Ds); Bronx Pk., *Bt* (Daw); **SI**, Ap-Jl (Daw); often at light (L&D); **LI**: Shinnecock Hills (Ds); Orient, Je, *Lath* (Ds).
- *S. parallela* Csy. A distinct species (Daw). New Rochelle (Fisher); Bronx Pk., *Bt* (Daw); **SI** and **LI** (Daw).
- 13372 *S. trociformis* Burm. Wilmington, Je (Daw); Buffalo (Z&R); Ithaca, May (Eng); Karner, May, Jl (Daw); West Pt., Je (Ds); Ft. Montgomery, May (Ds); Bronx Pk., *Bt* (Daw); **SI**, May-Je (Daw); **LI**: Nissequogue, Je (Ds); Pinelawn, Je, Yaphank, May, Jl (Eng).
- *S. sponsa* Daw. Ghent, Je, Kenwood, May, Albany, Ap (NYS).

## AUTOSERICA Brenske

- *A. castanea* Arrow. Yonkers, Mt. Vernon, New Rochelle (Arrow).

## ALOBUS LeConte

- 13375 *A. fulvus* Lec. "NY" (Lec).

## DIPILOTAXIS Kirby

- 13376 *D. sordida* Say. West Pt. (Robn); **SI**, Je (L&D); **LI**: Yaphank, Sep (Ds); Wyandanch (Sf).
- 13405 *D. atlantis* Fall. Castile, *Brad* (Flet); Windsor, Je (Not); **SI**, Ap-Je (Fall, L&D); **LI**: Bellport, Je (Nic); Far Rockaway, Shinnecock Hills (Ds); Yaphank, May-Je (Eng).
- 13409 *D. tristis* Kby. Horicon, Jl 17, 1925 (Frost); Syracuse, Ap, under stone (H); Peekskill; West Pt. (AM); **LI**: Babylon, *Bradford* (AM); Long Beach, Jamaica (AM).

- 13410 *D. liberta* Germ. E. Aurora, May, in numbers about roots of *Populus grandidentata* (Dnd); Ithaca, Mar-Aug (Dt); Peekskill (Fall); West Pt. (Robn); vic. NYC (AM); **LI**: Hauppauge (Felt); Cold Sp. Harb. (Sherm).
- 13446 *D. frondicola* Say. "NY" (Lec).
- 13455 *D. harperi* Blanch. "NY" (Fall).

# PHYLLOPHAGA Harris

(*Lachnosterna* Hope)

- 13486 *P. glaberrima* Blanch. **LI**: Coney I. (Sm).
- 13487 *P. ephilda* Say. "NY" (Lec).
- 13496 *P. gracilis* Burm. West Pt. (Robn); Peekskill (Ds); **SI**, Je-Aug (L&D); **LI**: Yaphank, Riverhead, Aug-Sep (Ds); Forest Pk., Jl (Martin).
- 13497 *P. futilis* Lec. (*gibbosa* Burm.). Buffalo (Z&R); Ithaca, Jl (CU); **SI**, Je (L&D); **LI**: Coney I. (Lec); Rockaway Beach, May (Nic); Elmhurst (Ds); Brooklyn Bot. Garden, May (Sf); Yaphank, Je (Eng).
- 13499 *P. congrua* Lec. "NY" (Lec).
- 13503 *P. crassissima* Blanch. "NY" (Sm, Felt).
- 13506 *P. inversa* Horn. "NY" (Dt); West Pt. (Robn).
- 13508 *P. micans* Knoch. Bronxville (Felt); **SI**, May-Je (L&D); **LI**: Brooklyn (Dt); Woodside, May (Sf).
- 13511 *P. fusca* Froelich. Peru, *Fbs*, Cy (CU); Essex Co, Je (NYS); Warrensburg (Lint); Newport, Dec, larva (Lint); Syracuse, Ap-May (H); Glenfield, May 27 (JJDs); Buffalo (Z&R); Perry, Je, *Hawley* (CU); Pike (JJDs); Albany, Coeymans, *Lint* (Felt); Nassau, Je, *Felt* (JJDs); West Pt., Je, Ft. Montgomery, May (Ds); Bronxville, *Felt* (JJDs); **SI**, Ap-Jl (L&D); **LI**: Hollis, Je (JJDs); Orient Pt., Je, *Lath*, Wingfield, Ap, *Sedgwick* (JJDs); Yaphank, May-Je (Eng).
- 13515 *P. fervida* Fab. (*arcuata* Sm.). "NY" (Sm, Fitch, et al.); Bronxville (Felt); **SI** (L&D); **LI**: Elmhurst (JJDs).
- 13516 *P. anxia* Lec. (*dubia* Sm.). Axton, Je (M&H); Peru, Je, Cy (Dt); Cranberry L., Je-Jl (H); Glenfield, Lewis Co, (JJDs); Newport, Je (NYS); Marion, Je, *Leon* (Dt); Syracuse, Ap-May (H); Pike, May (JJDs); Castile, Ap, *Brad* (Flet); Perry, Je, *Hawley* (Dt); Buffalo (Glasgow, Z&R); E. Aurora, Je, scarce (Dnd); Ithaca, Mar-Jl (Dt-CU); Windsor, Je (Not); **LI**: Orient Pt., *Lath* (JJDs).
- 13517 *P. drakei* Kby. (*grandis* Sm.). Buffalo (Glasgow); Ithaca, Je (Sling); Albany, May (Felt-NYS); **SI**, Je (L&D).
- 13519 *P. barda* Horn. Ramapo, Jl (Ds); Wading R., May (Nic); Huntington, Ap (Schott).
- 13520 *P. marginalis* Lec. "NY" (Lec, Sm); Ithaca, Je-Jl (JJDs); West Pt. (Robn); Ramapo, Je (Sf).
- 13522 *P. fraterna* Harr. Buffalo (Z&R), as *cognata*; Albany, May, *Cy*, *Fbs* (CU); West Pt. (Robn); Mosholu, May (Ds); Bronxville, Je (Felt); **SI**, Ap-Je (L&D); **LI**: Yaphank, Jl (Eng).
- 13523 *P. forsteri* Burm. (*lugubris* Lec.). "NY" (Lec, Sm); **SI**, Ap 22, *Woodr* (L&D).

- 13528 *P. knochi* Gyll. "Around NYS" (Sm); **SI** (L&D); **LI**: Wading R., Coram, Riverhead, Aug (Ds); Yaphank, May (Eng).
- 13530 *P. rugosa* Melsh. E. Aurora, May-Je, scarce (Dnd); **LI**: Wading R., May-Je (Nic).
- 13531 *P. rugosoides* Linell. **LI** (Linell-US).
- 13532 *P. hirsuta* Knoch. West Pt (Robn); Mosholu, May (Ds); **SI**, May-Jl (L&D); **LI**: Yaphank, Je (Eng).
- 13535 *P. balia* Say. Buffalo (Z&R); Ithaca, Ap-Jl (Dt).
- 13536 *P. villifrons* Lec. Buffalo (Z&R); Ramapo, May (Ds).
- 13537 *P. nitida* Lec. Albany, Jl (NYS).
- 13538 *P. hirticula* Knoch (*hirsuta* Say). Syracuse, Ap-May (H); E. Aurora, Ap-May, frequent under cover (Dnd); Ithaca, Ap-Aug (Dt, Sling, at trap lantern); Albany, Je (Felt); West Pt., *Robn* (JJDs); Grant Pt., May (NYS); Bronxville (Felt); **SI**, May (L&D); **LI**: Brooklyn (Dt); Hollis (JJDs); Elmhurst (JJDs); Orient Pt., *Robn* (Ds).
- 13540 *P. ilicis* Knoch. Ithaca, May-Jl (Sling, Dt); West Pt. (Robn); **SI** (L&D); **LI**: Brooklyn (Sm); Wading R., May (Nic); Flatbush, May (Eng).
- 13541 *P. subtonsa* Lec. "NY" (Lec); Yaphank, Je-Jl (Eng).
- 13544 *P. crenulata* Froel. Albany, Aug (NYS); West Pt. (Robn); Bronxville (Felt); **SI**, Ap-Aug (L&D); **LI**: Far Rockaway (Ds); Yaphank, Jl, Greenport, Aug (Eng); Wading R., Aug (Sf).
- 13556 *P. quercus* Knoch. Ithaca, Je (Sling); Nyack (Frost).
- 13561 *P. crinita* Burm. Marlboro, May 16 (Dt-CU). Described from Tex. and Mex.
- 13563 *P. tristis* Fab. Syracuse, Ap, under stones (H); Cambridge (Lint); Deposit (Lint); Marlboro, May (Sz); West Pt. (Robn); **SI**, May (L&D); **LI**: Brooklyn, *Yg* (Dt); Elmhurst (JJDs); Orient, May, *Lath* (Ds); Yaphank, May (Eng).

## POLYPHYLLA Harris

- 13624 *P. variolosa* Hentz. Peru, Jl (CU); Buffalo (Z&R); Karner, Schenectady, Jl-Aug, *Yg* (Felt); **SI**, Je-Jl, at light (L&D); **LI**: Bellport, Coney I., Je (Nic); Rockaway, Je (Ds); Riverhead, Jl (Ds).

## DICHELONYX Harris

- 13649 *D. elongata* Fab. Axton, Je (M&H); Cranberry L., Je (H); Charlotte (AM); Olcott (Dt); Buffalo (Z&R); Erie Co, common, May (Dnd); Batavia, Je (Kngt); Castile, May, *Brad* (Flet); Conesus L., Je (Ds); S. Salem, Je (Lint); McLean, Ringwood, Ithaca, May-Je (Dt); Windsor, Je (Not); West Pt. (AM); Ramapo (Sf); **SI**, Je (L&D); **LI**: Amagansett, May, Yaphank, Je (Eng); Babylon, Flatbush (AM).
- 13650 *D. canadensis* Horn. "NY"? (Horn).
- 13651 *D. subvittata* Lec. Cranberry L., Je 13 (H); West Pt. (Robn); Ft. Montgomery, May (Ds); **SI**, May-Je (L&D).
- 13652 *D. diluta* Fall. Windway, Je (Not); Schoharie (Not); Ramapo, Je 12, identity queried (Ds); **LI** (Jn).

- 13653 *D. fuscula* Lec. Vic. NYC (AM); **LI**: Val. Stream, Jl, Deep Pond, Wading R., Yaphank, May (Ds); Bellport, Je (Nic); Wyandanch (Sf).  
 13654 *D. testacea* Kby. Perry, Je, *Hawley* (Vdyk-CU); Windsor, Je (Not).  
 13655 *D. backi* Kby. Recorded from "NY" by Fitch, but Fall and Leng query the determination.  
 13676 *D. albicollis* Burm. Cranberry L., Je-Jl (H); Buffalo (Z&R); Westfield, Je (NYS); Ithaca, Je (Vdyk); Karner, Je (NYS); West Pt. (Robn); Nyack, Je (Ds); Brant L., Aug (Doll); **SI**, Je, on pine (L&D); **LI**: Yaphank (Sf).

## MACRODACTYLUS Latreille

- 13685 *M. subspinosus* Fab. ROSE BUG. Common and general in sandy areas. Cranberry L., *Htly* (H); Oswego (Lint); Rochester (Felt); Batavia, Je (Kngt); Ithaca; Utica (Fitch); Stillwater (Fitch); Albany, Schodack, Loudonville, and Peekskill (Lint); West Pt. (Robn); Grahamville; NYC (Fitch); **SI**, Je-Jl (L&D); **LI**, general.

## HOPLIA Illiger

- 13694 *H. trifasciata* Say. Cranberry L., Jl (H); Olcott, May-Je (Dt); Greece, May (Felt); Genesee Co, Je (Ds); Buffalo (Z&R); Windsor, Je (Not); **SI**, Ap, sometimes common on hickory buds (L&D); **LI**: Orient, *Lath* (NYS).  
 13694a *H. trifasciata* var. *tristis* Melsh. "NY" (Lec); **SI** (AM).  
 13695 *H. trivialis* Harold. "NY" (Lec); **SI**, May (L&D).  
 13697 *H. limbata* Lec. (*modesta* Hald.). Schoharie (Not); **SI**, Je (L&D); **LI** (Schaupp); Long Beach (AM); Rockaway (Dietz, Fall); Hempstead Plains, Ap (Eng).  
 13698 *H. equina* Lec. **SI**, Jl (L&D).

## SUBFAMILY RUTELINAE

## ANOMALA Samouelle

- 13709 *A. binotata* Gyll. **SI**, May 4 and 28 (L&D); **LI**: Rockaway Beach, Je (Ds); Far Rockaway (Jn).  
 13730 *A. undulata* Melsh. **LI**: Flatbush, Barren I. (AM).  
 13732 *A. innuba* Fab. **LI**: Bellport, Je (Nic); Yaphank, Je (Eng).  
 — *A. orientalis* Waterh. New Rochelle; Mt. Vernon; White Plains; **LI**: Westbury; Jericho, *Boyce*.

## PACHYSTETHUS Blanchard

- 13739 *P. marginata* Fab. **LI** (Eng).  
 13741 *P. lucicola* Fab. Buffalo (Z&R); Karner, Je-Jl (Felt); Croton-on-Hudson (Ds); West Pt. (Robn); White Plains, Je-Jl (Sq); **SI**, Je-Jl (L&D); **LI**: Orient, May, Jl (Ds); Woodhaven (Dt); Greenport, Aug (Eng); Rockaway Beach, Je (Eng). The *Anomala maculicollis* recorded from N. Y. by Fitch possibly belongs here (Lg).  
 13742 *P. oblivia* Horn. **SI**, Je (L&D); **LI**: Bellport, Jl (Nic); Yaphank, Jl (Eng).



## STRIGODERMA Burmeister

- 13747 *S. arboricola* Fab. Ithaca, *Anderson* (Dt); **SI**, Je-Jl (L&D); **LI**: Rockaway Beach, Je (Ds); Woodhaven, *Benjamin* (Dt); Long Beach (AM); Orient, *Lath* (NYS).

## STRIGODERMELLA Casey

- 13750 *S. pygmaea* Fab. **SI**, Jl (L&D); **LI**: Gardiners I., Jl (Eng).

## POPILLIA Serville

- 13754 *P. japonica* Newm. JAPANESE BEETLE. East bank of Hudson R. northw. to Ossining; Port Chester; **LI**: western third of island.

## PELIDNOTA MacLeay

- 13755 *P. punctata* L. Adirondacks (Fitch); Olcott, May-Aug (Dt); Honeoye Falls (CU); Buffalo (Z&R); Batavia, Aug-Sep (Kngt); E. Aurora, Jl-Sep, common (Dnd); Ithaca, Saratoga, May-Aug (Dt); Branchport (Lint); Kenwood, Je (NYS); West Pt. (Robn); White Plains, Jl-Sep (Sq); **SI**, Je-Aug (L&D); **LI**: Promised Land, Sep (Ds); Flatbush, Queens, Babylon (AM); Orient, *Lath* (NYS).
- 13755b *P. punctata* var. *brevis* Csy. **LI** (Csy).
- 13757d *P. lutea* Oliv. var. *hudsonica* Csy. "NY" (Csy).
- 13758 *P. tarsalis* Csy. "NY" (Csy).

## COTALPA Burmeister

- 13769 *C. lanigera* L. Buffalo (Z&R); West Pt. (Robn); Croton-on-Hudson, May (Ds); NYC (Martin); **SI**, May-Jl (L&D); **LI**: Southampton, Je (CU); Wyandanch, Half Way Hollow Hills, May-Jl, Wading R., Orient (Ds); Promised Land, Je (Eng).
- 13769b *C. lanigera* var. *vernica* Csy. "NY" (Csy).

## POLYMOECHUS LeConte

- 13787 *P. brevipes* Lec. "NY" (Lec).

## SUBFAMILY DYNASTINAE

## OCHROSIDIA Casey

- 13801 *O. immaculata* Oliv. **SI**, Je-Aug (L&D); **LI** (Eng).
- 13803 *O. villosa* Burm. **SI** (Csy).

## DYSCINETUS Harold

- 13829 *D. trachypygus* Burm. Nyack, Catskills (AM); **SI**, Ap-Jl (L&D); **LI**: Babylon (AM); Orient, *Lath* (NYS).

## LIGYRODES Casey

- 13834 *L. relictus* Say. Rochester (Lint); Buffalo (Z&R); Ithaca (CU); West Pt. (Robn); **SI**, May-Sep, Oct, one on sidewalk (L&D); **LI**: Flatbush, Barren I. (AM); Brooklyn, Oct (Eng).

## LIGYRUS Burmeister

- 13838 *L. longulus* Csy. **LI** (Csy).  
 13843 *L. gibbosus* DeG. **SI**, May-Aug (L&D); **LI**: Brooklyn (Yg, Dt); Rockaway Beach, Ap (Eng).

## APHONUS LeConte

- 13874 *A. politus* Csy. "NY" (Csy).  
 13878 *A. castaneus* Melsh. "NY" (Lg Cat., as *obesus* Burm.). **SI**, J1 (L&D); **LI**: Flatbush, J1 (Eng).  
 13879 *A. cubiformis* Csy. **LI** (Csy).

## STRATEGUS Hope

- 13896 *S. antaeus* Fab. **LI**: Bellport, Aug (Nic); Selden, Aug (Ds); Deep Pond, Wading R., Aug, *Sf* (Ds); Riverhead, Aug. This species should be called *septentrionis* if the differences noted by Casey are specific (Lg).

## XYLORYCTES Hope

- 13902 *X. satyrus* Fab. Buffalo (Z&R); Ithaca, J1-Aug (Dt, Flet); Schoharie (Not); West Pt. (Robn); **SI**, Je-Aug (L&D); **LI**: Babylon, injurious to young ash trees (Glover); Bellport, J1-Aug (Nic); Montauk, Sag Harbor (Dimmock); Glen Cove, Far Rockaway, Amagansett, Yaphank, J1 (Ds); Orient, *Lath* (NYS).

## DYNASTES Kirby

- 13908 *D. tityus* L. Kingston, J1, at light (Fernow). A solitary record for this southern species (Lg).

## SUBFAMILY CETONIINAE

## COTINIS Burmeister

*Allorrhina* Burmeister)

- 13931 *C. nitida* L. GREEN JUNE BEETLE. Irvington, J1 (NYS); NYC (AM); **SI**, Je-J1, swarming about beds of Canna (L&D); **LI**: Glen Cove (NYS); Central Pk. (AM).

## EUPHORIA Burmeister

- 13937 *E. fulgida* Fab. Little Falls (Lint); Trenton Falls (Dbl); Gloversville, Je (NYS); Buffalo (Z&R); E. Aurora, Je, at sap, scarce (Dnd); Ithaca, Je (CU); Windsor, Je (Not); Albany, Je (NYS); Catskills, *Pears* (Nic); West Pt. (Robn); Middletown, Je-J1 (CU); L. Waccabuc (AM); **SI** (L&D); **LI**: Brooklyn (Ds); Yaphank, J1 (Eng).

- 13938 **E. herbacea** Oliv. **SI**, May-Aug, not uncommon some years ago at Silver L. (L&D); **LI**: Shelter I. (Sf).
- 13940 **E. inda** L. BROWN FRUIT CHAFER. Adirondacks (Felt); Warrensburg; Syracuse, May (H); Rochester, Sep (CU); Honeoye Falls; Olcott, Ap-Sep (Dt); Buffalo (Z&R); Batavia, Aug-Sep (Kngt); E. Aurora, May, Aug, scarce (Dnd); Brocton (Cy); Ithaca, May-Sep (CU); Schenectady; Greenfield Center; Albany, Ap, Sep (NYS); Stuyvesant Falls (NYS); Poughkeepsie; Millbrook; West Pt. (Robn); White Plains (Lint); Yonkers; Mt. Kisco, larvae in manure pile (Sling); Bronx Pk. (AM); **SI**, Mar-Sep, sometimes attracted to sap on birch stumps (L&D); **LI**: Wading R., May, Amagansett, Sep, Southold, Sep, Orient (Ds); Babylon, Quogue, Flatbush (AM).

**STEPHANUCHA** Burmeister

- 13964 **S. areata** Fab. **SI**, Sep (L&D); **LI**: Jamaica, *Pears* (Nic); Aqueduct (Ds).

**CREMASTOCHEILUS** Knoch

- 13972 **C. harrisi** Kby. Peekskill, Sep (CU); Tarrytown (AM); **LI**: Wading R., May 30 (Nic); Promised Land, Je, Cold Sp. Harb., Ap (Eng); Far Rockaway (Jn).
- 13973 **C. canaliculatus** Kby. Mooers, Sep (Not); Saranac, Newport; Westfield, May (Not); Phoenicia (Vdyk); Gloversville, Hunter, May-Je (NYS); Windsor, Je (Not); Schoharie (Not); Peekskill, Sep (CU); West Pt. (Robn); Sterling L., May (Kneff).
- 13974 **C. castaneae** Knoch. Catskills, *Pears* (Nic); Greenville, Jl 30 (Joutel); Greenwood L., May (AM); West Pt. (Robn); Ft. Montgomery, May (Schott); Dutchess Co, Ap (Eng); Peekskill (Fall); Bronxville, Ap (Joutel).
- 13980 **C. variolosus** Kby. West Pt. (Robn); **LI**: Wyandanch, Ap (Sf).

**OSMODERMA** Serville

- 14010 **O. scabra** Beauv. Adirondacks (Felt); Wilmington, Jl-Aug (Dt); Cranberry L., Je-Jl (H); Buffalo (Z&R); E. Aurora, Je, Aug, scarce (Dnd); Batavia, Jl (Kngt); Ithaca, Jl-Aug (Vdyk); McLean, Aug, *Yuasa* (Vdyk); Saratoga, N. Spencer (Dt); Albany, Je-Jl (NYS); West Pt. (NYS); Catskills, Jl (Shoe); **SI**, Je-Aug (L&D).
- 14010a **O. scabra** var. *rugosa* Kby. Ithaca, Jl (Dt).
- 14012 **O. eremicola** Knoch. Essex Co, Jl-Aug (NYS); Buffalo (Z&R); E. Aurora, Aug, scarce (Dnd); Batavia, Aug (Kngt); Castile, Aug, *Brad* (Flet); Lake Bluff (NYS); Ithaca, Jl-Aug (Vdyk); West Pt. (Robn); Huguenot, Mosholu (AM); **SI**, Jl-Aug (L&D); **LI**: Yaphank (NYS).

**GNORIMELLA** Casey*(Gnorimus auct.)*

- 14013 **G. maculosa** Knoch. Buffalo (Z&R); Allegany Pk., Jl, one (Dnd); West Pt. (Robn); Van Cort. Pk., *Pears* (Nic); **SI**, May-Je (L&D); **LI**: Coram, May (Bell).

## TRICHIOTINUS Casey

- 14016 **T. piger** Fab. Cranberry L., Jl (Drk); E. Aurora, Buffalo, Je-Jl, common on flowers (Dud); Batavia, Je (Kngt); Castile, *Brad* (Flet); Ithaca, Jl (Dt); Schoharie (Not); West Pt. (Robn); Stony Pt. (AM); **SI**, Je-Jl (L&D); **LI**: Yaphank, Je (Eng); Orient, *Lath* (NYS).
- 14017 **T. texanus** Horn. **SI**, *Eng* (Joutel); **LI** (Eng). Fall queries these records, since the species is listed from Tex. and Fla.
- 14022 **T. assimilis** Kby. Catskills, Jl (Eng).
- 14023 **T. viridans** Kby. "NY" (Fitch). Leng suggests that this possibly refers to *assimilis*.
- 14025 **T. affinis** Gory. Mt. Marcy; Saranac Inn, Old Forge, Jl (NYS); Long L. (Ds); Hewitt, Je (Ds); Axton, Je (M&H); Cranberry L., Je, Aug (H); Olcott, Je-Aug (Dt); Buffalo (Z&R); Syracuse, Je 27, in hickory (B&S); Ithaca, Jl 22, *Yuasa* (Vdyk); Ringwood, Je-Aug (Dt); Windsor, Je (Not); Schoharie (Not); L. George (AM); Albany, Jl (NYS); West Pt., Stony Pt., Je, Ft. Montgomery, Callicoon, Jl (Ds); **SI**, Je-Aug (L&D); **LI**: Yaphank, Long Pond, Wading R., Jl (Ds).
- 14026 **T. parvulus** Csy. "NY" (Csy).
- 14027 **T. bibens** Fab. Buffalo (Z&R); Ramapo, May (Ds); Greenwood L. (Dietz).

## VALGUS Scriba

- 14030 **V. squamiger** Beauv. West Pt. (Robn); **SI**, Ap 9, in decayed log; also found May-Je (L&D); **LI**: Central Pk., Ap (Eng); Pinelawn, Yaphank, Ap, Central Pk., Sep (Eng); Farmingdale (Si).
- 14031 **V. canaliculatus** Fab. Peekskill, May (Sherm); Rensselaer, May (NYS).

## FAMILY LUCANIDAE

Compiled by JOHN W. ANGELL

## SUBFAMILY LUCANINAE

## PSEUDOLUCANUS Hope

- 14034 **P. capreolus** L. (*dama* Fab.). Formerly common throughout the State; now becoming rarer. L. George, Je, *Shoe*; Medina, Jl (CU); Tonawanda, Jl (CU); Olcott, May-Aug (Dt); Buffalo (Z&R); Elmira, Je (CU); Ballston, Jl (NYS); Coeymans (NYS); Albany, Je-Jl (NYS); Nassau, Je, *Felt*; Athens, Jl (Ang); Catskills, Jl (NYS); Nyack, *Zab*; Fishkill; West Pt., *Robn*; Croton, Je (Ds); NYC: West Farms (AM); Clason Pt., Jl; Washington Hgts., Jl (Ang); Bronx Pk.; Van Cort. Pk., *Nic*; **SI**: May-Aug, *L&D*; Princess Bay, Je (Ang); Clove Valley, Je-Aug, *Lg*; **LI**: Brooklyn, Aug, *Shoe*; Jamaica, *Nic*; Hollis; Rockaway Beach, Je, *Shoe*; Shelter I., Aug, *Ds*; Babylon; Orient Pt., Jl, *Lath*; Flatbush, Aug (Ang).

The larva lives in the wood of deciduous trees such as maple, oak, and apple. Adults are often taken by beating the foliage of oak, or by "sugaring" at light or on the bark or at the base of the trees mentioned. The species exhibits considerable variation in size and color. Specimens vary from deep chestnut to pale reddish brown.

- 14036 **P. placidus** Say. Generally considered a western species, but said to be fairly common in northern localities such as Buffalo. Dr. Melville H. Hatch records it at Ann Arbor, Mich., at light and in beach drift. Buffalo (Ang); Olcott, May-Je (Dt).

The larva lives in oak, according to Carl Selinger.

## SUBFAMILY DORCINAE

## DORCUS MacLeay

- 14039 **D. parallelus** Say. Formerly a common species throughout the State, but now becoming rarer. Mt. Marcy, *Not*; Herkimer, J1 (Geo. Franck Coll.); Rochester (Ward Coll.); Hodgeville; Buffalo, *Ashm*, *Z&R*; Batavia, Je (Kngt); Otto, J1 (CU); Aurora, Je, *Zab*; Ithaca, May-Aug (CU); Schoharie, *Not*; Schenectady, J1; Catskills, Je; North Branch, *Schaupp*; West Pt., *Robn*; Cooks Falls, Oct (Ang); White Plains; Dunwoodie, Je (Ang); Nepperhan, Ap (Ang); NYC, Allerton Ave., Ap; Clason Pt., May-J1 (Ang); Washington Sq. (Ang); West Farms (Ang-AM); Bronx; Van Cort. Pk., May, *Diven*; **SI**: May, *L&D*; Bulls Head, May (Ang); **LI**: Rockaway Beach, Je, *Diven*; Corona, Je; Babylon, Je; Flatbush, Oct, *Zab*; Wading R., Aug, *Schott*; Jamaica, *Pears*; Cold Sp. Harb., *Brb*; Brooklyn, J1, *Shoe*.

The larva lives in the wood of deciduous trees, such as oak, maple, and sycamore, boring in the hard part of the wood. Adults are often taken in or under charred logs or stumps or at light.

- 14039a **D. parallelus** var. *carnochani* Ang. Evidently a local race or variety. Three specimens, all male, were taken by F. G. Carnochan while blasting stumps on a farm at New City. Differs from typical form in slightly heavier body, smoother elytra, and blunter mandibles.

## PLATYCERUS Geoffroy

- 14041 **P. quercus** Weber. Fairly common throughout the State. Newport, *Yg*; Syracuse, Ap, *H* (Ang); Olcott, Je-Sep (Dt); Batavia, Je (Kngt); Westfield, May (Not); Buffalo, *Z&R*; Ithaca, Sep (CU); Taughannock Falls, May (CU); McLean, Je-Sep (Dt); Windsor, Je (Not); W. Hebron (Lg Coll.); Catskills, May, *Pears*; Big Ind. Valley, Je, *Pears*; Southfields, May, *Schott*; West Pt., *Robn*; Suffern, May, *Schott*; Hillburn, Nyack, May, *Schott*; Ramapo Mts., May (AM); Hartsdale (AM); **SI**, Je, *Joutel*, *L&D*; **LI**: Jamaica, Ap; Queens, *Schott*.

The larva lives in oak, and, rarely, in hickory. Adults are often found resting on flowers, such as wild blackberry. Also occurs in spring flights of many individuals. Adult male insects show two forms, a black and a dark green.

- 14045 **P. depressus** Lec. Axton, Je, *M&H*; Crown Pt., J1 (NYS); Ticonderoga, May, *Bks*; Northampton, *Yg*; Mt. Marcy, *Not*; Buffalo, *Z&R*; Pike, Je (NYS); Catskills, May, Sep, *Pears*; Pine L., Je-J1, *FrostSW*, *Sf*; NYC, Je.

Differs considerably from the typical form, being more elongate, with heavier mandibles and striations of the elytra, and may prove to be a new species; color varies from deep bronze to black.



## SUBFAMILY AESALINAE

## CERUCHUS MacLeay

- 14058 *C. piceus* Weber. Common throughout the State. Mt. Marcy, *Not*; Cranberry L., Je, *H*; Newport, *Yg*; Peru, Je (CU); Gloversville, Sep (NYS); Batavia, Je-Jl, *Ds* (Kngt); Buffalo, *Ashm*, *Z&R*; Ithaca, Mar-Apr, Sep, *Bish*, *Dt* (CU); Freeville, Windsor, Je (Not); W. Hebron, Je, *Lg*; Coeymans, Ap (NYS); Slide Mt., Catskills, Je, Sep, *Ds*, *Shoe*; Cooks Falls (Ang); North Branch, *Schaupp*; Katonah, *Lg*; Mosholu (AM); West Pt., *Robn*; Yonkers, Oct (Ang); Nepara Pk., Yonkers, Mar, *Diven*; NYC, Pelham Parkway; Van Cort. Pk., Nov (Ang); Rattlesnake Cr., Ap (Ang); West Farms (AM); **SI**, Jl (L&D); **LI**: Queens, Nov, *Schott*; Bellport, Jl, *Nic*; -Yaphank, Jl, *Ds*; Orient, Sep, *Lath*; Montauk, Jl (Ang).

The larva lives in the decayed wood of white birch, elm, oak, hemlock, maple, and butternut. Specimens recorded from northern or mountainous parts of the State often exhibit considerable rugosity of elytra, particularly noticeable in the females, and attain a greater size.

## NICAGUS LeConte

- 14062 *N. obscurus* Lec. Locally common. Usually considered a seashore species, although occasionally found inland. Wm. T. Davis records this species as found on the plant vegetation of the up-beach at Wading R., LI. Keene Val., May (Not); Mt. Marcy, *Not*; Buffalo, *Z&R*; Westfield, May (Not); **LI**: Wading R., May-Je, *Diven*; Montauk, Je, *Schott*.

## FAMILY PASSALIDAE

## PASSALUS Fabricius

- 14064 *P. cornutus* Fab. Common all over the State in the decaying, and generally moist, wood of deciduous trees (Ang). Representative localities are: Adirondacks (Felt); Batavia; Olcott, May, Aug, Nov (Dt); West Pt. (Robn); **SI** (L&D).

## FAMILY CERAMBYCIDAE 50

## SUBFAMILY PRIONINAE

## PARANDRA Latreille

- 14067 *P. brunnea* Fab. PARANDRA BORER. Adirondacks (Felt); Syracuse, Onondaga Hill (Blkm); Rochester (M&W); Buffalo (Z&R); E. Aurora, *Wild* (Dnd); Olcott, Jl-Aug, Oct (Dt); Castile, *Brad* (Flet); Ithaca, Jl-Sep (Dt), Spring L. Beach, Ithaca, Jl, under bark of *Pinus rigida* (Chitt); West Pt. (Robn); **SI**, Aug-Sep (L&D); **LI**: Brooklyn, Aug (Ds), in hollow trunks of *Ailanthus* (Linell); Greenport, Aug (Ds); Prospect, Aug, Central Pk., Je (BM). Larva in nearly all kinds of coniferous and hardwood trees (Fisher).

<sup>50</sup> W. S. Fisher has gone over this list, and has supplied many New York food-plant notes. Dr. M. W. Blackman also has supplied records.

## DEROBRACHUS Serville

*(Orthosoma Serville)*

- 14081 **D. brunneus** Forst. LESSER PRIONUS. Adirondacks (Felt); Cranberry L., JI (Mund); Syracuse, Sodus Bay (Blkm); Rochester (M&W); Buffalo (Z&R); Avon, JI, *Cl*s; Cattaraugus and Allegany Counties (Dnd); Ithaca, Aug (Dt-CU); McLean, N. Spencer, JI-Aug (CU); W. Hebron (Lg); West Pt. (Robn); **SI**, JI-Aug (L&D); **LI**: Riverhead, Aug (Ds); Greenport, Aug (Ds); Orient, Je, *Lath* (Ds). Twenty more records (Lg). Larva in decaying logs and stumps of nearly all hardwood trees (Fisher).

## PRIONUS Fabricius

- 14084 **P. laticollis** Drury (*kempi* and *oblongus* Csy.). BROAD-NECKED PRIONUS. Adirondacks (Felt); Syracuse (Blkm); Buffalo (Z&R); Geneva, *Cl*s; Ithaca, JI-Aug (Dt-CU); L. George, JI (Zab); Schenectady (Dt-CU); Oak Hill, JI-Aug, in roots of oak (Clarkson); West Pt. (Robn); White Plains, JI (Frost, Sq); Peekskill (Blkm); Bronx (Ds); **SI**, JI-Aug (L&D); **LI**: Half Way Hollow Hills, Wading R., Yaphank, JI (Ds); Orient, *Lath* (NYS); Oyster Bay, Selden, Aug (Ds); Croton, Je-JI (Ds). Twenty-five more records (Lg). Larva works within the roots of various hardwoods, especially oak, poplar, and chestnut (Fisher).
- **P. nigrescans** Csy. Adirondacks, L. Champlain (Csy).<sup>51</sup>
- 14085 **P. popularis** Dalm. Saratoga, Aug (Dt-CU); Bronxville, JI (Woodr); **LI**: Yaphank, Aug, at light (Ds); Bay Shore, Aug (Olsen). Larva in dead pine logs (Fisher).
- 14089 **P. imbricornis** L. **LI**: Bay Shore, Aug, *Ol*s (BM). Larva in the roots of oak and chestnut (Fisher).

## TRAGOSOMA Serville

- 14097a **T. depsarium** L. var. *harrisi* Lec. Adirondacks (Felt); Cranberry L., JI (Mund); Long L. (Ds); Wanakena, Aug (Drk); Lewiston, JI (Lg Coll.); Buffalo (Z&R); Ithaca, JI (CU); North Branch (Schaupp); Bronx (BM); **LI**: Yaphank, Aug (AM); North Beach, Aug (BM). Larva in sapwood and decaying wood of coniferous trees.

## DISTENIA Serville

- 14098 **D. undata** Fab. West Pt. (Robn); **SI** (L&D); **LI**: Westbury (Champlain). Chestnut, hickory, and hornbeam (Felt). Larva in hickory, elm, and redbud (Fisher).

## SMODICUM Haldeman

- 14099 **S. cucujiforme** Say. **SI** (L&D). Oak, beech, hackberry, and willow (Felt). Larva in the heartwood of very old, dry, and seasoned hardwoods, including oak, hickory, beech, elm, etc. (Fisher).

<sup>51</sup> The species of *Prionus* described by Casey in 1912 were treated as synonyms in the Leng catalog. Casey in 1924 reiterated his opinion that they were valid species, and added *nigrescans* to the category. It is here retained, as it has not been studied since its description.

**ASEMUM** Eschscholtz

- 14107 **A. moestum** Hald. Axton (Houghton); Cranberry L., May-Jl (Mund); Mt. Whiteface, Jl (Ds), Sep (Lg); Mt. Seward, 4500 ft., Je (Houghton); Syracuse (Blkm); Crittenden (Blkm); Buffalo (Z&R); Alleghany Pk. (Dnd); Ithaca, Jl (Dt-CU); Nassau, Troy, breeds in pine (Felt); West Pt. (Robn); Bronx (AM); **SI**, Je (L&D); **LI** (Nic, Ds). Larva in spruce, fir, and larch (Fisher).
- 14109 **A. ebenum** Csy. Cranberry L., Je (Mund); Mt. Whiteface trail, Jl (Ds), as *atrum* Esch., an allied western species. Larva in spruce in the West (Fisher).

**TETROPIUM** Kirby

- 14124 **T. cinnamopterum** Kby. Adirondacks, Je-Jl (NYS); Axton (Houghton); Wanakena, Aug (Drk); Cranberry L., Je-Jl, bred from spruce (Mund); Syracuse (Blkm). Larva in pine, spruce, and fir (Fisher).
- 14128 **T. velutinum** Lec. Mt. Whiteface trail, Jl (Ds); Cranberry L., Je (Mund). Larva in pine (Fisher).

**CRIOCEPHALUS** Mulsant

- 14132 **C. agrestis** Kby. Adirondacks (Hill); Cranberry L., Jl (Mund); Oswego (NYS); Buffalo (Z&R); Ithaca, Je-Jl (Dt-CU); Albany, Aug (NYS); **SI**, Je (L&D); **LI**: Bay Shore, Aug (BM). Infests roots of pine and spruce (Felt).
- 14139 **C. obsoletus** Rand. Buffalo (Z&R); E. Aurora (Dnd); **LI**, Je-Aug (Nic, Shoe). Larva in pine (Fisher).
- **C. champlainianus** Csy. L. George (Csy).

**OEME** Newman

- 14146 **O. rigida** Say. Bronxville, Je (Woodr); **SI**, Jl, bred from cedar (L&D); **LI**: Je-Jl, in wash-up (Shoe); Rockaway Beach, Je (BM). Larva in juniper or red cedar (Felt).

**DRYOBIUS** LeConte

- 14153 **D. sexfasciatus** Say. "NY". Larvae mine inner bark of dead elm, exceedingly rare (Fitch). Larva in basswood (Fisher).

**TESSAROPA** Haldeman*(Dysphaga* LeConte)

- 14168 **T. tenuipes** Hald. **SI**, Je, from terminal twig of ash (L&D). On oak, walnut, and redbud (Felt). Larva in twigs of oak, hickory, and beech; pupates in late summer or fall, and adults remain in twigs over winter, emerging very early in spring (Fisher).

**TYLONOTUS** Haldeman

- 14177 **T. bimaculatus** Hald. Northern NY (Pack); Gloversville, Aug (Yg); Rochester (M&W); Buffalo (Z&R); E. Aurora (Dnd); West Pt. (Robn). Larva in ash, hickory, black walnut, tulip, and birch (Felt).

**STROMATIUM** Serville

- 14178 **S. fulvum** Villers. Cosmopolitan.  
 14179 **S. pubescens** Hald. Buffalo (Z&R); **LI** (Ds).

**CHION** Newman

- 14181 **C. cinctus** Drury. Syracuse (Blkm); Buffalo (Z&R); Penn Yan (Dt); Ithaca (Philip Miller); Albany (NYS); Hudson, May, larva on hickory, oak, and plum (NYS); West Pt. (Robn); NYC, Mar-May, from firewood (Woodr); **SI** (L&D); **LI**, Je (BM). In cut timber, especially hickory (Felt). Larva in walnut, oak, hickory, and chestnut (Fisher).

**EBURIA** Serville

- 14190 **E. quadrigeminata** Say. Syracuse, bred from hickory (B&S); West Pt. (Robn); **LI** (Lg). On honey locust, hickory, ash, beech, elm, and oak (Felt).

**ROMALEUM** White

- 14196 **R. atomarium** Drury. Syracuse (Blkm); Charlotte, Sep (NYS); **LI**: Bellport, Jl-Aug (Nic); Wading R., Jl (Ds). Larva in stumps and logs of recently dead oak (Felt) and chestnut (Fisher).  
 14199 **R. rufulum** Hald. Syracuse (Blkm); Buffalo (Z&R); Ithaca, Sep (CU); W. Hebron (Lg); New Paltz, Aug (Ds); West Pt. (Robn); Bronxville, Jl (Woodr); **SI**, Jl-Aug (L&D); **LI**: Brooklyn, Jl (Shoe); Yaphank, Jl (Ds). Larva in oak (Fisher).

**HYPERMALLUS** Lacordaire

- 14207 **H. incertus** Newn. Syracuse, bred from hickory (B&S); Bronxville, Jl (Woodr); **LI**: Yaphank, Sep (Ds); Rockaway, Aug (Woodr); Bellport, Je (Nic). Larva in mulberry (Fisher).  
 14210 **H. abruptus** Csy. West Pt., Je (Not-AM); **LI** (Not-AM).  
 14211 **H. villosus** Fab. THE OAK PRUNER. Syracuse (Blkm); Rochester (M&W); Olcott, Jl (Dt); Buffalo (Z&R); E. Aurora (Dnd); Ithaca, Jl (Dt-CU); L. George (Felt); Lawrence (Blkm); Nyack, Je (Ds); West Pt. (Robn); **SI**, May-Aug (L&D); **LI**: Wading R., Je (Ds); Wyandanch, Yaphank, Jl (Ds); Flatbush, Ap, Yaphank, May, Amagansett, May (BM). Twenty-five other records (Lg). Not very injurious (Felt). Larva in a great variety of hardwoods (Fisher).  
 14212 **H. militaris** Csy. "NY" (Csy).  
 14214 **H. medialis** Csy. Huguenot, Aug, bred from *Quercus rubra* (Not-AM).  
 14217 **H. parallelus** Newn. Lewiston, Jl (Lg); Buffalo (Z&R); Ithaca, May (Dt); Albany (NYS); West Pt., Je (Ds); Newburgh, Blauvelt (NYS); Thousand Isls., May-Jl (Ds); **LI**: Wading R., May (Ds); Bellport, Sea Cliff, Bayport (NYS). Larva in a variety of hardwoods (Fisher).

## ELAPHIDION Serville

- 14219 **E. irroratum** L. "NY" (Lec, Hald).  
 14220 **E. mucronatum** Say. L. Minnewaska, J1 (Ds); Buffalo (Z&R); West Pt. (Robn); **SI**, Je, J1, Aug (L&D); **LI**: Half Way Hollow Hills, J1 (Ds); Brooklyn, J1-Aug (Shoe); Flatbush, Je (BM). Larva in chestnut, redbud, maple, oak, poplar, mulberry, and many other hardwoods (Fisher).

## ANEFLOMORPHA Casey

- 14227 **A. subpubescens** Lec. **LI**: Rockaway Beach, Central Pk., May (Ds); Wyandanch, J1, Yaphank, May, J1, Deep Pond, Wading R., Je (Ds). Larva in chestnut and oak (Fisher).

## ANOPLIUM Haldeman

- 14240 **A. cinerascens** Lec. Buffalo (Z&R); West Pt. (Robn); Bronxville, J1 (Woodr); **SI** (L&D). (*A. pumilum* record probably belongs here.)

## PSEUDIBIDION Casey

- 14263 **P. unicolor** Rand. Adirondacks, J1 (Lg); Syracuse, bred from hickory (B&S); Rochester (M&W); Buffalo (Z&R); Avon, Je, *Cls*; Ithaca, Je (Dt-CU); Clinton Hgts., Je (NYS); West Pt. (Robn); Mt. Kisco, Aug (NYS); **SI**, Je 29 (L&D); **LI**: Brooklyn (Shoe); Central Pk., Yaphank, J1 (Ds); Bellport, Aug, beating scrub oak (Nic); Thousand Isls. (Ds). Larva in oak, beech, walnut, and hickory (Fisher).

## HETERACHTHES Newman

- 14268 **H. ebenus** Newm. **SI**, Je (L&D); **LI**: Rockaway, May, Wyandanch, Je (Ds); Babylon, Je-J1, Long Beach (AM); Bellport, J1 (Nic); Hicksville, Aug (Champlain). Larva in pine (Fisher).  
 14271 **H. quadrimaculatus** Fab. Syracuse, bred from hickory (B&S); Buffalo (Z&R); West Pt. (Robn); Bronx (BM); Bronxville, Je (Woodr); Riverdale, J1 (Woodr); West Farms (AM); NYC (Ds); **SI**, Je-J1, hatched from hickory (L&D); **LI**, J1 (Shoe). Larva in hickory and tulip poplar (Fisher).

## GRACILIA Serville

- 14282 **G. manca** Lec. Type of *manca* from NY. NYC (Lg Coll.). Possibly identical with *minuta*.  
 14283 **G. minuta** Fab. Syracuse (Blkm); Buffalo (Z&R); NYC (AM).

## OBRIUM Curtis

(*Phyton* Newman)

- 14286 **O. maculatum** Oliv. (*pallidum* Say). Buffalo (Z&R); Mosholu (BM); **SI**, J1, on oak (L&D); **LI**: J1 (Ds); Aqueduct, J1 (Ds). Larva in oak, hackberry, hickory, mulberry, and chestnut (Fisher).  
 14291 **O. rufulum** Gahan (*rubrum* Lg.). Buffalo (Z&R); White Plains, J1 (Frost, Sq); Bronx (BM); **SI**, J1, on privet (L&D); **LI**: Flushing, Aug (Ds). Larva in ash (Felt).



## RHAGIUM Fabricius

- 14298 **R. lineatum** Oliv. RIBBED PINE BORER. Mt. Whiteface, J1 (Ds); Cranberry L., Je, Sep (Mund); Syracuse (Blkm); Buffalo (Z&R); Geneva, Je-J1, *Cls*; Ithaca, Oct (Ds); Taughannock Falls, Ithaca, Ap (Dt-CU); Schenectady, Dec (Dt); Albany (Felt); Elka Pk (Blkm); West Pt. (Robn); **SI**, Ap-Nov, under bark of white pine (L&D); **LI** (Eng); Wyandanch, Ap, pitch pine (Ds); Yaphank, May (Ds); Central Pk., Ap (BM). Larva in pine (Fisher).

## HAPALOSALIA Casey

- 14304 **H. aurata** Horn. Genesee Co, Je (Lg); Portageville, J1 (Ds); Rock City, Je (Ds); Ithaca, Je-J1 (Dt); Ringwood, Je-J1 (Dt-CU); Windsor, Je (Not); Catskills, J1 (Blk).
- 14308 **H. vibex** Newn. Mt. Whiteface, J1 (Shoe); Protection (Dnd); Newport (NYS); Buffalo (Z&R); Castile, *Brad* (Flet); Potter Swamp, Yates Co, Je (Ds); Ithaca, Coy Glen, Ringwood, Danby, Je-J1 (Dt-CU); Kenwood, Albany (NYS); Trenton Falls (Newn); Schoharie (Not); Catskills, J1 (Blk); West Pt. (Robn).
- 14310 **H. sphaericollis** Say. Mt. Whiteface, J1 (Ds); Rochester (M&W); Buffalo (Z&R); Olcott, Je (Dt); Portageville, Je (Ds); Rock City (Ds); Catskills, J1 (Blk); West Pt. (Ds).
- 14310a **H. sphaericollis** var. ? **ruficollis** Say. Olcott, May-J1 (Dt); Ringwood, Je (Dt); Catskills; W. Hebron; West Pt. (Robn); Ramapo, May; Ft. Montgomery.

## CENTRODERA LeConte

- 14311 **C. decolorata** Harris. Barneveld, Oct (Yg); Sodus Bay (Blkm); Niagara (Lec); Buffalo (Z&R); Ellington, Je (Lg); Seneca Jct., Rock City, Je (Ds); Ithaca, Je (Lg), J1 (Dt-CU); Catskills (Pears); Binghamton (BM). On butternut and beech (Felt). Larva in oak, chestnut, and tulip poplar (Fisher).
- 14313 **C. picta** Hald. Rochester (M&W); Buffalo (Z&R); Portageville, Je (Ds); Rock City (Ds); Montour Falls (H); Taughannock Falls, Ringwood, May (Dt); West Pt. (Robn); Ramapo (AM); **SI**, Je, at light (Grossbeck); **LI** (Ds). On hickory (Felt, Bish).

STENOCORUS Fabricius<sup>52</sup>*Toxotus* LeConte)

- 14320 **S. cinnamopterus** Rand. "NY" (Lg Cat.).
- 14321 **S. schauumi** Lec. Newport (NYS); Batavia, J1 (Kngt); Buffalo (Rein); Danby, *Cy* (Flet); Cortland Co (Dnd); Catskills, J1, *Pears*, very rare on dead beech (Nic); Shokan (Lg). On beech (Felt).
- 14321a **S. schauumi** var. **croceus** Lg. Wilmington, Aug (Ds).
- 14323 **S. trivittatus** Say. Mt. Whiteface, J1 (Ds); Cranberry L., J1 (Mund); Minerva, J1 20, 1925, one specimen on milkweed flowers (*Frost*); Rochester (M&W); Ithaca (Philip Miller); Binghamton (BM); West Pt., Je (Ds); Croton, Je (Ds); Ft. Montgomery, May 30 (AM).

<sup>52</sup> The larval habits of this genus are unknown (Fisher).

- 14324 **S. vittiger** Rand. West Pt. (Robn); Croton, Je (Ds); Ramapo (Sm).  
 14343 **S. cylindricollis** Say. Trenton Falls (Newn); Nyack (Zab); Van Cort. Pk., Pears.

**PACHYTA** Zetterstedt

- 14348 **P. rugipennis** Newn. Homadaga L., Essex Co, May, 1924, very rare (Frost); Cranberry L., three specimens on bark of dead spruce, Je (Htly).

**EVODINUS** LeConte

- 14349 **E. monticola** Rand. Axton (Houghton); Cranberry L., Je (Mund); Big Moose (NYS); Boston, Protection (Dnd); Buffalo (Rein); Portageville, Je (Ds); Ithaca, Je (Dt-CU); W. Danby, May, Tarbel, Je (Ds); Windsor, Je (Not); Schoharie (Not); Catskills, Je-Jl (Ds, Blk). Larva in hemlock (Fisher).

**ACMAEOPS** LeConte

- 14395 **A. directa** Newn. Adirondacks, Aug (Martin); Keene Val., Aug (BM); Rochester (M&W); Buffalo (Z&R); Holland, Allegany Pk. (Dnd); Ithaca, Jl (Dt-CU); Albany (NYS); New Baltimore (AM); Catskills, Aug (Ds); Elka Pk. (Blkm); Poughkeepsie, Je (NYS); Peekskill (AM); West Pt. (Robn); Nyack (Ds); Ramapo, Je (Ds).  
 14396 **A. pratensis** Laich. Axton (Houghton); Mt. Whiteface, Wilmington, Jl (Ds); Cranberry L., Je-Jl (Mund); Catskills (Pears).  
 14402 **A. cavicollis** Csy. Cranberry L., Je-Jl, bred from spruce and balsam (Mund).  
 14403 **A. proteus** Kby. Adirondacks (Shoe-NYS); Cranberry L., Je (Drk); Ithaca, Je (Dt-CU); **LI**: Yaphank, Je, Rockaway Beach, May (BM).  
 14405 **A. discoidea** Hald. **LI**: Wading R., May (Ds); Rockaway, Je (Shoe).  
 14406 **A. thoracicus** Hald. Mt. Whiteface, Jl (Shoe); Windsor, Je (Not); Big Ind. Val., Je (Shoe); West Pt. (Robn); Ramapo (Sm).  
 14407 **A. bivittatus** Say. Lewis Co, Jl (NYS); Rochester (NYS); Pike, Je (NYS); West Pt. (Robn).  
 14408 **A. nigripennis** Lec. West Pt. (Robn).  
 14409 **A. fusciceps** Lec. Cattaraugus Co (Lec), type.

**GAUROTES** LeConte

- 14411 **G. cyanipennis** Say. Mt. Whiteface, Jl (Ds); Cranberry L., Je, Aug (Mund); Geneva, Middlesex, Je, *Cls*; Avon, May, *Cls*; Olcott, Je (Dt); Buffalo, Je (Ds, Z&R); Ithaca, Je-Jl (Dt-CU); Groton, Je (Ds); Schoharie (Not); West Pt. (Robn); Croton, Je (Ds); Ramapo (Ds); **SI**, Je-Jl, on chestnut (L&D); **LI** (BM). Thirty-four more records (Lg). In butternut, oak, and birch (Felt). Larva in dogwood, sour gum, oak, wild cherry, walnut, and mulberry (Fisher).  
 14414 **G. abdominalis** Bland. Mt. Whiteface trail, Jl (Ds); Rochester (M&W); Allegany Pk. (Dnd); Catskills (BM); West Pt., in laurel blossoms, Je (Robn).

## ANTHOPHILAX LeConte

- 14415 **A. attenuatus** Hald. Mt. Whiteface, J1 (Ds); Kéene Hgts., Aug-Sep (Lg); Cranberry L., Je-J1, on male flowers of red pine (Mund); Newport, on dead beech (Yg); Lewis Co, J1 (NYS); Holland (Frost); Catskills, May (Pears); Big Ind. Val., J1 (Shoe). Larva in beech, birch, maple, and poplar (Fisher).
- 14416 **A. malachiticus** Hald. Cranberry L. (Blkm); Rochester (M&W); Rock City, Je (Ds); Ithaca, Ringwood, Je (Dt-CU); Slide Mt., J1 (Lg); Catskills, May 30 (Knull Coll.); Big Ind. Val., J1 (Shoe); Ft. Montgomery (Brb).
- 14417 **A. viridis** Lec. Mt. Whiteface, J1 (Shoe); Slide Mt., Je (Ds); Cranberry L. (Mund); Big Ind. Val., J1 (Shoe). Larva in beech, birch, and maple (Fisher).
- 14417a **A. viridis** var. **viridipennis** Csy. Northern NY (Csy).

## JUDOLIA Mulsant

- 14424 **J. sexmaculata** L. Long L. (Ds); Mt. Whiteface, J1 (Ds); Cranberry L., Je-J1 (Mund).
- 14426 **J. cordifera** Oliv. Cranberry L., J1-Aug (Mund); Rochester (M&W); Canandaigua Center (NYS); Allegany Pk. (Dnd); Ithaca, Coy Glen, Ringwood, Je-J1 (Dt-CU); Albany (NYS); Catskills, J1-Aug (Blk, Ds); Staatsburg, Je (Woodr); Callicoon, J1 (Ds); West Pt. (Robn); Stony Pt., Je (Ds); **SI**, Je-J1, on flowers of New Jersey tea (L&D); **LI**, Je-J1 (Ds).

## BRACHYLEPTURA Casey

- 14438 **B. rubrica** Say. Cranberry L., J1-Aug (Mund); Saranac (Lg); Syracuse, bred from hickory (B&S); Geneva, J1, *Cl*s; Buffalo (Z&R); Ithaca, Je-J1 (Dt-CU); Albany (Yg); Catskills, J1-Aug (Blk, Ds); North Branch (Schaupp); West Pt. (Robn); Mosholu (AM); **SI**, Je-J1, on flowers of New Jersey tea (L&D); **LI**: Pinelawn, Aug, Wyandanch, Je (Ds). Twenty-five more records (Lg). Larva in a great variety of dead hardwoods and conifers (Fisher).
- 14441 **B. vagans** Oliv. Adirondacks; Old Forge (NYS); L. Pleasant (NYS); Cranberry L., J1-Aug (Mund); Buffalo (Z&R); Canandaigua (NYS); Ithaca, Dec (Chitt); Buttermilk Cr., J1 (Dt-CU); Karner (NYS); Catskills, J1-Aug (Blk, Ds); Calicoon, J1 (Ds); West Pt. (Robn); **SI**, bred from branch of pitch pine (L&D). In oak (Felt). Larva in decaying pine (Fisher).
- 14445 **B. circumdata** Oliv. Cranberry L., Je (Mund); Ithaca, Je (Dt); Catskills, J1 (Blk); West Pt. (Robn); **LI**: Wyandanch, Yaphank, Je (Ds).
- 14447 **B. canadensis** Fab. Wilmington, Aug (Ds, Dt); Keene Val., Aug (BM); Long L. (Ds); Tahawus, Aug (Lg); Cranberry L., J1-Aug, bred from balsam and spruce (Mund); Saranac L. (Lg); Mt. Whiteface, 4000 ft., Aug (Dt); Syracuse (Blkm); E. Aurora (Dnd); Avon, J1, *Cl*s; Buffalo (Z&R); Albany, J1 (NYS); Catskills, Aug (Blk, Ds); Sullivan Co (Lg); North Branch (Schaupp). In spruce and hemlock (Felt). Larva in hemlock and pine (Fisher).
- 14447a **B. canadensis** var. **cinnamoptera** Hald. Cranberry L., J1-Aug (Mund); Big Ind. Val., Aug (BM); Catskills (Blkm).

- 14448 *B. cribripennis* Lec. Buffalo (Z&R).  
 14450 *B. sanguinea* Lec. Cranberry L., Jl-Aug (Mund); Mt. Whiteface, J1 (Shoe); Catskills, J1 (AM); West Pt. (Robn).  
 14452 *B. lacustris* Csy. Cranberry L., Jl-Aug, bred from spruce (Mund).

## PARALLELINA Casey

- 14455 *P. chalybea* Hald. Buffalo (Z&R); Ithaca, Je (Kngt).  
 14456 *P. exigua* Newn. (*sauzia* Lec.). Newport, Je (NYS); Syracuse (Blkm); Buffalo (Z&R); Ithaca, Ringwood, Je (Dt); Kenwood, Albany, Je (NYS); Schoharie (Not); Poughkeepsie, Je (NYS); Peekskill, May (Lg); West Pt. (Robn); Ft. Montgomery, May (Lg).  
 14457 *P. nana* Newn. Catskills, J1 (Blk); Trenton Falls (Newn).  
 14457a *P. nana* var. *haematites* Newn. Newport, Je (NYS); Rochester (M&W); Boston (Dnd); Buffalo (Z&R); Pike, Je (NYS); Portageville, Je (Ds); Ithaca, May-Je (Dt, Kngt); Trenton Falls (Newn); Catskills, Je (Pears); Mosholu, Je (BM); Elka Pk. (Blkm); West Pt. (Robn); Ft. Montgomery, May (AM); Bronx, May (AM); **SI**, May, on flowers (L&D); **LI**: Yaphank, Je (Ds).  
 14459 *P. subargentata* Kby. Plattsburg, Wilmington, J1 (Shoe); Rochester (M&W); Buffalo (Z&R); Allegany Pk. (Dnd); Catskills (Pears).  
 14459c *P. subargentata* var. *ruficollis* Prov. Castile, Je, *Brad* (Flet); Allegany Pk., Boston (Dnd); West Pt. (Robn).  
 14461 *P. similis* Kby. "Western NY," frequent (Dnd).

## CHARISALIA Casey

- 14463 *C. americana* Hald. Albany, J1 (NYS).  
 14464 *C. capitata* Newn. Axton (Houghton); Cranberry L., Je (Mund); Rochester (M&W); Genesee Co, Je (Lg); Olcott, Je (Dt); Buffalo (Z&R); Ithaca, Je (Dt-CU); Trenton Falls (Newn); West Pt. (Robn); NYC and vic. (AM).

## STRANGALEPTA Casey

- 14465 *S. lineola* Say. Western NY, common (Dnd); Buffalo (Z&R); Portageville, Je (Ds); Rock City, Je (Ds); Ithaca, May-J1 (Dt); McLean, Ringwood, J1 (Dt); Windsor, Je (Not); Schoharie (Not); Catskills, J1 (Blk); West Pt. (Robn); Ft. Montgomery, May, Ramapo, Je (Ds); **SI**, May-Je, on flowers (L&D); **LI**: Yaphank, Je (Ds). Fifty-three more records (L). Larva in dead birch (Fisher).  
 14466 *S. pubera* Say. N. Elba, J1 (Ds); Mt. Whiteface, J1 (Ds); Cranberry L., Je (Mund); western NY, frequent (Dnd); Portageville, Je (Ds); Castile, *Brad* (Flet); Cattaraugus, Je (Ds); Ithaca, Je-J1, Ringwood, Je, McLean, J1 (Dt); Schoharie (Not); Catskills, J1 (Blk); West Pt. (Robn); **SI**, May-Je, on flowers (L&D). Twenty-six more records (Lg).  
 14469 *S. vittata* Oliv. Long L. (Ds); N. Elba, J1 (Ds); Cranberry L., Je-J1, bred from spruce and larch (Mund); Syracuse, Crittenden (Blkm); Olcott, Je-J1 (Dt); Genesee Co, Je; Buffalo (Z&R); Portageville, Je; Conesus L., Je; Geneva, Je, *Cls*; Ithaca, Je-J1, McLean, J1 (Dt); Catskills, J1-Aug (Blk); West Pt. (Robn); White Plains, Je (Frost,

Sq); Pine I., Je; Ft. Montgomery, Jl, Ramapo, Je; **SI**, May-Je, on flowers (L&D); **LI**: Wyandanch, Half Way Hollow Hills, Yaphank, Je-Jl (Ds). Sixty-seven more records (Lg). Larva in cedar, pine, fir, and chestnut (Fisher).

### STRANGALIA Serville

- 14482 **S. subhamata** Rand. Adirondacks, Jl (NYS); Long L. (Ds); Cranberry L., Jl, on flowers (Mund); Minerva, Jl 20, 1925, on Spiraea flowers (Frost); Rochester (M&W); Buffalo (Z&R); Java, E. Aurora (Dnd); Pike (NYS); Ithaca, Je-Jl (Dt); Catskills, Aug (Ds); Sullivan Co (Schaupp). In hemlock, tamarack, and beech (Felt). Larva in dead pine and hemlock (Fisher).
- 14483 **S. elegans** Hald. Cranberry L., Jl-Aug, on flowers (Mund); Saratoga (Lec).
- 14484 **S. cruentata** Hald. Hastings, May-Je (Joutel); Ithaca, Je (Dt); West Pt. (Robn).
- 14487 **S. plebeja** Rand. Essex Co, Jl (Yg); Minerva, Jl 20, 1925, on Spiraea flowers (Frost); Cranberry L., Je-Jl, Sep, on flowers (Mund); Long L. (Ds); Catskills, Jl (Blk).

### XESTOLEPTURA Casey

- 14493 **X. octonotata** Say. Rochester (M&W); Olcott, Je (Dt); Buffalo (Z&R); Ithaca, Je (Dt-CU); Poughkeepsie, Je (Yg); West Pt. (Robn); Mosholu, Je (Ds); Ramapo, Je (Ds); **SI**, Je, on flowers (L&D).

### STROPHIONA Casey

- 14508 **S. nitens** Forst. (*zebra* Felt). Syracuse (Blkm); Olcott, Je (Dt); Buffalo (Z&R); Conesus L., Je (Ds); Geneva, Jl, Cls; Ithaca, Je (Dt); Catskills, Aug (Ds); West Pt. (Robn); Ft. Montgomery, Jl, Nyack, Ramapo, Je (Ds); **SI**, May-Je, on flowers (L&D); **LI**: Rockaway Beach, Je, Half Way Hollow Hills, Jl, Yaphank, Je (Ds). Thirty-eight more records (Lg). Larva in chestnut and oak (Fisher).

### LEPTURA Linné

- 14514 **L. emarginata** L. Syracuse (Blkm); Buffalo (Z&R); Ithaca, Aug (E. A. Richmond, Philip Miller); Rensselaer, Je (NYS); West Pt. (Robn); Bronx, Jl (AM); **SI** (L&D). Larva in red oak (Joutel), elm (Felt), birch, beech, oak, sour gum, and tulip poplar (Fisher).
- 14516 **L. nigrella** Say. Cranberry L., Je-Jl (Mund); Oswego, L Placid, Je (NYS); Geneva, Je-Jl, Cls.
- 14520 **L. chrysocoma** Kby. Adirondacks (Shoe, Not, Yg); Mt. Whiteface, Wilmington, N. Elba, Jl (Ds); Axton (Houghton); Cranberry L., Je-Jl, on flowers (Mund). Larva in pine (Fisher).
- 14525 **L. proxima** Say. Adirondacks, Je-Jl (Ds); Cranberry L., Je-Aug, on flowers (Mund); Olcott, Je (Dt); Buffalo (Z&R); E. Aurora (Dnd); Elka Pk., Aug (Drk); Conesus L., Je-Jl (Ds); Ithaca, Jl (Dt); Catskills, Jl-Aug (Blk, Ds); West Pt. (Robn); **SI**, on flowers (L&D). Twenty-nine more records (Lg). Larva in chestnut, maple, hickory,



and linden (Fisher). (Many specimens from Cranberry L. and the Catskills would fall under *L. minnesotana* Csy. if this be considered valid—Blkm.)

- *L. kempiana* Csy. L. George (Csy).  
 14530 *L. biforis* Newn. Cranberry L., Je-Jl (Mund); Speculator, Jl (NYS); Syracuse, Onondaga Hill (Blkm); Sodus Bay, Jl (NYS); Rochester (M&W); Buffalo (Newn); Ithaca, Jl-Aug (Dt-CU); Helderbergs, Jl (NYS); Trenton Falls (Newn); Catskills (Lec, Pears); Elka Pk. (Blkm). Larva in chestnut (Fisher).  
 14531 *L. laurentica* Csy. "Northern NY" (Csy).  
 14532 *L. mutabilis* Newn. Axton (Houghton); Cranberry L., Je, bred from yellow and white birch (Mund); Syracuse, bred from alder (Blkm); E. Aurora, Allegany Pk. (Dnd); Castile, *Brad* (Flet); Portageville, Jl (Ds); Ithaca, Je-Jl (Dt); Windsor, Je (Not); Schoharie (Not); Catskills, Jl (Blk); West Pt. (Robn); Nyack, Je (Ds); **SI**, Je, on flowers, bred from blue beech and dogwood (L&D). Larva in oak, maple, chestnut, and birch (Fisher).  
 14532a *L. mutabilis* var. *luridipennis* Hald. Cranberry L., Je-Jl, cut from hemlock (Mund); Allegany Pk., scarce (Dnd); Elka Pk. (Blkm). Twenty-nine more records (Lg).  
 14533 *L. aspera* Lec. Catskills (Knull). Larva in dead birch (Fisher).  
 14534 *L. pedalis* Lec. Cranberry L., Je-Jl, on flowers (Mund); Mt. Whiteface, Jl (Ds); Newport, Old Forge, Je (NYS); Elka Pk. (Blkm).

#### BELLAMIRA LeConte

- 14537 *B. scalaris* Say. Cranberry L., Jl-Aug, cut from birch (Mund); Mt. Whiteface, Jl (Ds); Mt. Marcy, Jl (Ds); Buffalo (Z&R); E. Aurora (Dnd); Ithaca, Aug (CU); Catskills, Jl (Blkm); Saratoga (Lec); West Pt., bred from poplar (Robn); Sullivan Co (Schaupp). Larva in many varieties of coniferous and hardwood trees (Fisher).

#### TYPOCERUS LeConte

- 14540 *T. zebra* Oliv. NY (Lg, Lec). On white oak (Felt).  
 14543 *T. velutina* Oliv. Cranberry L., Jl-Aug, on flowers (Mund); Syracuse, bred from hickory (B&S); Olcott, Je-Jl (Dt); Buffalo (Z&R); Elka Pk., Aug (Drk); Geneva, Jl, *Cls*; Ithaca, Jl-Aug (Dt); Karner, on scrub oak (Felt); Callicoon (Ds); Catskills, Jl-Aug (Blk); West Pt. (Robn); **SI**, Je-Aug, on roses (L&D); **LI**: Massapequa, Half Way Hollow Hills, Wading R., Yaphank, Jl-Aug (Ds). Larva in many varieties of coniferous and hardwood trees (Fisher).  
 14544 *T. acuticauda* Csy. Cranberry L., Jl-Aug, with preceding on flowers (Mund); Elka Pk. (Blkm).  
 14548 *T. lugubris* Say. Olcott, Je (Dt); Buffalo (Z&R); Greene Co, Jl (Lg); Ulster Co, Je (Lg); Bronx (AM); **SI**, Je-Jl (L&D).

#### OPHISTOMIS Thomson

- 14553 *O. famelica* Newn. Staatsburg, Je (Woodr); West Pt. (Robn); Bronxville, Je (Woodr); **SI**, Je-Jl, on flowers (L&D); **LI**: Wyandanch, Half Way Hollow Hills, Jl (Ds); Yaphank, Je (BM). Larva in decaying oak and yellow birch (Fisher).

- 14554 *O. acuminata* Oliv. Poughkeepsie, Je (NYS); Staatsburg, Je (Woodr); West Pt. (Robn); Ft. Montgomery, May 30 (Lg); Bronxville, Je (Woodr); Bronx (AM); **SI**, Je, on flowers (L&D); **LI**: Yaphank, Je-Jl (Ds). Bred from dead *Viburnum* stems (Fisher).
- 14556 *O. luteicornis* Fab. Rochester (M&W); Coy Glen, Ithaca, Jl-Aug (Dt-CU); Catskills, Jl-Aug (Blk); West Pt. (Robn); Ft. Montgomery, Jl (Ds); Callicoon (Ds); Stony Pt., Je (Ds); **SI**, Je-Aug, on flowers (L&D); **LI**: Wyandanch, Half Way Hollow Hills, Yaphank, Je-Jl (Ds). Thirty-five more records (Lg). Larva in decaying elm, beech, grape, and *Viburnum dentatum* (Fisher).
- 14560 *O. bicolor* Swed. **LI**: Yaphank, Jl (Ds). Larva in oak and maple (Fisher).

## ENCYCLOPS Newman

- 14573 *E. coerulea* Say. Slide Mt., Jl (Knull); Egleston's Glen, L. Keuka, Je (Ds); Olcott, Je (Dt); Kenwood, Je (Yg); Buffalo (Z&R); Portageville, Je (Ds); Ithaca, Je (Kngt); Trenton Falls (Newn); Schoharie (Not); Big Ind. Val., Je-Jl (Shoe); West Pt. (Robn); **SI**, May 30, on flowers (L&D). Larva in walnut, sour gum, chestnut, maple, oak, and tulip poplar (Fisher).

## DESMOCERUS Serville

- 14574 *D. palliatus* Forst. THE CLOAKED KNOTTY-HORN. Adirondacks (NYS); Syracuse (Blkm); Rochester (M&W); E. Aurora (Dnd); Buffalo (Z&R); Branchport, Je-Jl (NYS); Castile, Je, *Brad* (Flet); Elka Pk., Aug (Drk); Geneva, Je, *Cls*; Ithaca, Je-Sep, Cayuga Co (Dt-CU); Karner, Albany, Je-Jl (NYS); Big Ind. Val., Je-Jl (Shoe); New Baltimore (AM); Elka Pk. (Blkm); West Pt. (Robn, Ds); Pine L., Je (Ds); Nyack (AM); White Plains, May-Je (Frost, Sq); Bronxville, Je (Woodr); Van Cort. Pk. (AM); **SI**, Jl (L&D); **LI**: Elmhurst, Aug (Ds). Larva in roots of elder (Fisher).

## NECYDALIS Linné

- 14580 *N. mellitus* Say. Buffalo (Z&R); West Farms (AM). Larva in chestnut and oak (Fisher).

## MOLORCHUS Fabricius

- 14584 *M. bimaculatus* Say. Syracuse, bred from hickory (B&S); Rochester (M&W); Olcott, Je (Dt); Buffalo (Z&R); Boston (Dnd); Pike, Je (NYS); Castile, *Brad* (Flet); Kenwood, Je (NYS); Aurora, Je (AM); Schuyler Co, Je (H); Ithaca, Je-Jl (Dt-CU); W. Danby, May (Ds); Poughkeepsie, Je (NYS); Peekskill, May (Sherm); West Pt., Je (Robn, Ds); Ramapo, Je (AM); Bronxville, May (Woodr); **SI**, May, bred from dogwood (L&D); **LI**: Yaphank, May (Ds). Larva in redbud, dogwood, chestnut, oak, grape, walnut, maple, and sweet gum (Fisher).

## CALLIMOXYs Kraatz

- 14586 *C. fuscipennis* Lec. (*sanguinicollis* Oliv.). Rochester (M&W); Buffalo (Z&R); Aurora (AM); Ithaca, Je-Jl (Kngt, Dt-CU); Harford, Je (BM); Schoharie (Not); Catskills, Je-Jl (Shoe).

## GONOCALLUS LeConte

- 14606 **G. collaris** Kby. "NY" (Lec); Portage (Frost). Larva in pine and spruce (Fisher).

## PHYSOCNEMUM Haldeman

- 14608 **P. brevilineum** Say. Clinton, Oswego, J1 (NYS); Olcott, Je (Dt); Buf-falo (Z&R, Dnd); Geneva, J1, *Cls*; Ithaca, J1 (Dt-CU); Albany, J1 (NYS); West Pt. (Robn, Ds); West Farms (AM); **LI**: Yaphank, Je, in scarlet oak, Wading R., Je (Ds). Larva in elm (Fisher).

## ROPALOPUS Mulsant

- 14612 **R. sanguinicollis** Horn. Mt. Whiteface (Ds); Saranac, Je (NYS); Syracuse (Blkm); Elka Pk., May (Drk); Big Ind. Val., Je (Ds); Catskills, *Pears* (Shoe).

## HYLOTRUPES Serville

- 14613 **H. bajulus** L. Buffalo (Z&R); Yonkers, Je (NYS); West Farms (AM); Bronx (BM); **SI** (L&D); **LI**: Rockaway Beach, J1 (Ds); Moriches, damaging flooring of house (Zab). Larva in dry, seasoned wood of conifers, doing considerable injury to finished woods (Fisher).

## ANOCOMIS Casey

- 14614 **A. lignea** Fab. Syracuse, from arbor vitae (Blkm); Buffalo (Z&R); West Pt. (Robn); **SI**, Mar, common on recently felled cedar, also Ap (L&D); **LI**: Rockaway Beach, May (BM); Orient, *Lath* (NYS). Larva in red cedar (Fisher).

## MERIUM Kirby

- 14619 **M. proteus** Kby. "NY" (Lec). Larva in spruce (Fisher).

## CALLIDIUM Fabricius

- 14620 **C. antennatum** Newm. Axton (Houghton); Cranberry L., Je-J1 (Mund); Old Forge, May-Je (NYS); St. Lawrence Co, Je (Drk); Rochester (M&W); Buffalo (Z&R); Karner, May-Je (NYS); Albany, May-Je (NYS); Elka Pk. (Blkm); West Pt. (Robn); **SI**, Ap, Je, larva lives in pine (L&D); **LI**: Rockaway Beach, May (Ds); Central Pk., common on dead pine, Ap (Eng); Long Beach, Wyandanch, May (BM). Bred in large numbers from a young dead pine at Karner (Felt). Larva in pine and spruce (Fisher).
- 14621 **C. schotti** Sf. **LI**: Huntington, Sep (Schott); Long Beach, May (BM). (*C. janthinum* of Buffalo list perhaps belongs here; also Mt. Whiteface, J1, record by Mr. Davis, here or with the next.)
- 14622 **C. violaceum** L. Lowville, J1 (Ds); Keene Val., Je (BM); Mt. Whiteface, J1 (Shoe); Saranac (Woodr); Syracuse (Blkm); **LI**: Brooklyn (BM).
- 14625 **C. frigidum** Csy. Pine L., May (BM); NYC, from cedar introduced for rustic work, May (Frost); **LI**: Yaphank, May (Ds).

## PHYMATODES Mulsant

- 14630 *P. amoenus* Say. Syracuse (Blkm); Rochester (M&W); Buffalo (Z&R); E. Aurora (Dnd); Albany, May-Je (NYS); West Pt. (Ds); Mosholu (AM); **SI**, May-Je, larva in dead grapevines (L&D); **LI**: Rockaway, Je (Shoe); Wading R., May (Ds); Yaphank, Long Beach, Montauk, May (BM).
- 14630a *P. amoenus* var. *hudsonicus* Csy. Type locality, NY (Lg).
- 14631 *P. lengi* Joutel. Eggleston's Glen, L. Keuka (Ds); Coy Glen, Ithaca, Je (Ds); **SI**, Je (L&D); **LI** (BM).
- 14634 *P. testaceus* L. Buffalo (Ham); Ithaca, Je (Dt-CU); W. Hebron, Je (Lg); Ft. Montgomery, May 30 (Ds); West Farms (AM); **SI**, Je, larvae under bark of oak logs (L&D); **LI**: Babylon (AM).
- 14634 *P. testaceus* var. *variabilis* L. Buffalo (Z&R); West Pt. (Robn); Ft. Montgomery, May, Nyack, Je (Ds); **SI**, with *testaceus* (L&D). Twenty-eight more records (Lg). Larva mines in the inner bark of dead and dying oak (Felt).
- 14635 *P. aereus* Newn. Syracuse, bred from hickory (B&S); Rochester (M&W); Olcott, Je (Dt); Buffalo (Z&R); Coy Glen, Ithaca, Je-Jl (Dt-CU); W. Hebron (Lg Coll.); Peekskill (Lg Coll.); West Pt. (Ds); Ramapo (Lg Coll.); **LI**: Rockaway (Sherm); Yaphank, Je (BM). Larva in chestnut and oak (Fisher).
- 14640 *P. dimidiatus* Kby. Adirondacks, May, Aug; Axton (Houghton); Mt. Whiteface, Jl (Ds); Cranberry L., Je-Jl (Mund); Syracuse, Crittenden, bred from larch (Blkm); Buffalo (Z&R); Catskills, Aug (Ds); Van Cort. Pk. (AM); **SI**, larva bores in oak (L&D); **LI**: Rockaway Beach, Je (BM). Emerging from spruce siding (Felt). Larva in spruce, hemlock, and larch (Fisher).
- 14646 *P. varius* Fab. Olcott, Je (Dt); Buffalo (Rein); W. Danby, May (Ds); Peekskill, Je (Rein); West Pt., Je (Robn, Ds); Ft. Montgomery, May (Ds); Nyack, Je (Rein, Ds); **SI**, larva bores in oak (L&D); **LI**: Fitch Wading R., May (Ds); Amagansett, May, Flatbush, Je (BM). Fitch also records variety *albofasciatus* Bland. Oak and hickory (Felt).
- 14650 *P. ater* Lec. Buffalo (Horn).
- 14655 *P. lividus* Rossi. **SI** (Joutel); **LI**, introduced (Lg).

## CYLLENE Newman

- 14670 *C. caryae* Gahan (*picta* Horn). Rochester (M&W); Buffalo (Z&R); Ithaca, Je-Jl (Dt-CU); L. George (AM); Albany, Je, Aug (NYS); West Pt. (Robn); Katonah, Nyack (AM); NYC, Jl (Woodr); **SI**, May, larva in hickory (L&D); **LI** (AM). Larva in hickory (Fisher).
- 14671 *C. robiniae* Forst. (*pictus* Drury). LOCUST BORER. Oswego (NYS); Syracuse (Blkm); Rochester (M&W); Buffalo (Z&R); E. Aurora (Dnd); Castile, *Brad* (Flet); Geneva, Avon, *Cl*s; Ithaca, Sep (CU); Utica (Fitch); Karner, Albany (NYS); Stuyvesant (NYS); Poughkeepsie, Sep (NYS); West Pt. (Robn); White Plains, Aug-Sep (FrostSW, Sq); Westchester Co (Woodr); **SI**, Aug, Oct, larva in locust (L&D); **LI**: Brooklyn (Blkm); Patchogue, Yaphank, Sea Cliff, Sep (Ds); Orient, Nov, *Lath* (Ds). Thirteen more records (Lg). Larva in locust, often injurious.

## ARHOPALUS Serville

- 14672 **A. fulminans** Fab. Syracuse (Blkm); Buffalo (Z&R); Portage, JI (NYS); Geneva, Je, *Cls*; Ithaca, Je-Aug (Dt-CU); W. Hebron, Je (Lg); West Pt. (Robn); Westchester, JI (NYS); Nyack, Je (Lg); **SI**, Je-JI, larva in chestnut (L&D); **LI**: Je (Ds); Flatbush; Rockaway Beach, Je (BM). Larva mines inner bark and sapwood of chestnut and oak (Felt).

## GLYCOBIUS LeConte

(*Plagionotus* LeConte not Mulsant)

- 14673 **G. speciosus** Say. SUGAR-MAPLE BORER. Mt. Whiteface, JI (Ds); Delano (NYS); Glens Falls (NYS); Fulton (Felt); Syracuse (NYS, Blkm); Rochester (M&W); Batavia (NYS); Buffalo (Z&R); E. Aurora (Dnd); Castile, *Brad* (Flet); Williamsville (NYS); Freeville, JI (Ds); Elmira, Je (Diven); Canajoharie (NYS); Albany, JI (NYS); Ballston, Je, Stuyvesant Falls (NYS); Rensselaer, Je (Woodr); Schoharie (NYS); Adams (NYS); Mt. Riga (NYS); White Plains, JI (Frost, Sq). Breeds in sugar maple, often injurious.

## CALLOIDES LeConte

- 14674 **C. nobilis** Harris. Gloversville (NYS); Syracuse (Blkm); Buffalo (Z&R); Geneva, Je-JI, Lodi, JI, *Cls*; Ithaca, Je (CU); Albany (NYS); West Pt. (Robn); Greenwood L., Nyack (AM); **LI**: Rockaway Beach, Je (Ds); Wyandanch, JI (Ds); Forest Pk., Je (BM). Larva in oak (Fisher).

## XYLOTRECHUS Chevrolat

- 14679 **X. colonus** Fab. RUSTIC BORER. Cranberry L., Je-JI, yellow birch (Mund); St. Lawrence Co, JI (Dnd); Syracuse (Blkm); Buffalo (Z&R); E. Aurora (Dnd); Castile, Je, *Brad* (Flet); Avon, Geneva, Je, Aug, *Cls*; Cattaraugus Co, Je (Ds); Ithaca, JI-Aug (Dt); W. Hebron (Ds); Elka Pk. (Blkm); West Pt. (Robn); White Plains, JI (FrostSW, Sq); **SI**, Je, Aug, larva in many hardwood trees (L&D). Forty-four more records (Lg). Larva in nearly all hardwoods, and has been recorded from hemlock (Fisher).
- 14680 **X. sagittatus** Germ. Buffalo (Z&R); Ithaca (Dt-CU); Rensselaer (NYS); Catskills, May-Je (Nic); West Pt., Je (Ds); Nyack, Aug-Sep (AM); **LI**: Wading R., JI (Ds); Flatbush, Aug-Sep (AM); Yaphank, Sep (BM). Larva in pine, spruce, and fir (Fisher).
- 14683 **X. quadrimaculatus** Hald. Cranberry L., on yellow birch logs (Htly); Buffalo (Z&R); E. Aurora (Dnd); Big Ind. Val., JI (Pears); **SI**, JI (L&D). Larva in birch, beech, and alder (Fisher).
- 14684 **X. aceris** Fisher. **SI**, JI (L&D); **LI** (St). Larva in red, silver, and sugar maple (Fisher).
- 14691c **X. undulatus** Say var. *fuscus* Kby. Keene Val., JI (BM); Cranberry L., May-JI, bred from larch and spruce (Mund); Big Moose, JI-Aug (Felt); Lewis Co, JI (NYS); Buffalo (Z&R); Big Ind. Val., Je (BM); Elka Pk. (Blkm); West Pt. (Robn). Larva in fir and hemlock (Fisher).



- 14691e **X. undulatus** Say var. **interruptus** Cast. Cranberry L., J1 (Drk); Ithaca, J1 (Dt-CU); Catskills, J1 (AM).  
 14696 **X. convergens** Lec. Buffalo (Rein). Larva in dead thorn, *Crataegus* sp. (Fisher).

## NEOCLYTUS Thomson

- 14701 **N. longipes** Drury (*angulatus* Fab., *rhombifer* Oliv.). Has been recorded from NY. Record probably based on West Indian individuals hatching from imported timber.  
 14703 **N. scutellaris** Oliv. NY (Lec); **LI**: Long Beach, J1 (Frost); Coney I., Je (BM). On hickory, elm, and grape (Felt). Larva in white oak (Fisher).  
 14704 **N. mucronatus** Fab. (*luscus* Fab.). Buffalo (Z&R). Larva in hickory (Felt).  
 14707 **N. caprea** Say. Scottsville, injurious to black ash (Felt); West Pt. (Robn); West Farms (AM). Larva in ash and oak (Fisher).  
 14708 **N. kirbyi** Auriv. (*longipes* Kby.). Wanakena, Crittenden, bred from larch (B&S). Larva in oak (Fisher).  
 14713 **N. muricatus** Kby. Essex Co, J1 (NYS); Cranberry L., bred from larch, Je-J1 (Mund); Syracuse, Crittenden, bred from larch (Blkm); Buffalo (Z&R). Larva in spruce, larch, and pine (Fisher).  
 14717 **N. acuminatus** Fab. (*erythrocephalus* Fab.). Cranberry L., Je (Mund); Syracuse, from hickory (Blkm); Honeoye Falls (Ds); Buffalo (Z&R); E. Aurora (Dnd); Castile, Je, *Brad* (Flet); Schuyler Co, Je (H); **SI**, Je-J1, common on various hardwoods (L&D); **LI**, Je-J1, Sep (Ds). Forty-nine more records (Lg). Larva in a great variety of hardwoods (Fisher).

## EURYSCELIS Chevrolat

- 14726 **E. suturalis** Oliv. Brooklyn, undoubtedly from imported wood, being a native of the West Indies (Lg).

## ANTHOBOSCUS Chevrolat

(*Clytanthus* Thomson)

- 14728 **A. ruricola** Oliv. Adirondacks, Je-Aug (Blk); Cranberry L., Je, Aug (Mund); Wanakena, Aug (Drk); Syracuse, J1-Aug (Blk); western NY (Dnd); Olcott, Je-J1 (Dt); Buffalo (Z&R); Castile, *Brad* (Flet); Conesus L., Je-Aug (Ds); Port Byron, Cayuga Co, Je (Dt); Geneva, Je, *Cl*s; Ithaca, Je-J1 (Dt-CU); Catskills, Je-Aug (Ds); West Pt. (Robn); **LI**: Wading R., May (Ds). Thirty-seven more records (Lg). Larva in maple, hickory, birch, and beech (Fisher).

## CLYTOLEPTUS Casey

- 14730 **C. albofasciatus** Lap. "NY" (AM); Cranberry L., J1 (Mund); **LI** (BM). Larva in dead grape (Fisher).

## CLYTUS Laicharteg

- 14734 *C. marginicollis* Cast. "NY" (Lg); Cranberry L., one specimen, JI. This is a southern species and may have emerged from southern lumber shipped in (Blkm). Breeds in pine (Fisher).

## MICROCLYTUS LeConte

- 14739 *M. gazellula* Hald. Boston (Dnd). Occurs in Canada, Ohio, and Pa. (Journ. NY. Ent. Soc. 26:8 (Lg). Larva in oak and hickory (Fisher).  
 14740 *M. gibbulus* Lec. (*insinuans* Csy.). "NY" (Hald); Adirondacks (Not). On oak (Felt).

## CYRTOPHORUS LeConte

- 14741 *C. verrucosus* Oliv. Onondaga Co, May (H); Buffalo (Z&R); E. Aurora (Dnd); Rock City, Je (Ds); Castile, *Brad* (Flet); Middlesex, Je, *Cls*; Ithaca, May-JI (Dt-CU); Windsor, Je (Not); Schoharie (Not); Big Ind. Val., May (BM); West Pt. (Robn); **SI**, Je (L&D); **LI**: Yaphank, Central Pk., May (Ds); Amagansett, May (BM). Twenty-two more records (Lg). Bred from various hardwood limbs at Syracuse (B&S). Larva in dogwood, maple, birch, spicebush, persimmon, pear, cherry, blue beech, and redbud (Fisher).

## EUDERCES LeConte

- 14745 *E. picipes* Fab. Adirondacks, May, JI (Ds); Syracuse, Je (Drk); Rochester (M&W); Olcott, Je-JI (Dt); Buffalo (Rein); Portageville, Je (Ds); Avon, Je, Waterloo, Je, Geneva, Je-JI, *Cls*; Conesus L., Je (Ds); Allegany Pk. (Dnd); Ithaca, Je-JI (Dt-CU); Schoharie (H); W. Hebron, Je (Lg); Pine I., Je (Ds); West Pt. (Robn); Ft. Montgomery, May, JI (Ds); Bronx Pk., Je (Ds); **SI**, Je, common on flowers (L&D). Fifty more records (Lg). Bred from hickory, chestnut, beech, and linden, at Syracuse (B&S). Larva in a great variety of hardwoods—chestnut, hickory, oak, redbud, hackberry, walnut, locust, sour gum, pear, and dogwood (Fisher).  
 14746 *E. pini* Oliv. NYC, Mar (Woodr).

## TILLOCLYTUS Bates

- 14750 *T. geminatus* Hald. West Pt. (Robn); **SI**, May-Je (L&D); **LI**: Bellport, Je (Nic); Brooklyn, May 27 (Shoe); Amagansett, May (BM). On white oak (Felt). Larva in oak, hickory, grape, dogwood, and sour gum (Fisher).

## STENOSPHEUS Haldeman

- 14757 *S. notatus* Oliv. Syracuse, from hickory (B&S); Poughkeepsie, May (Yg); West Pt., Je (Ds); West Farms, Nyack (AM); **LI**: Half Way Hollow Hills, JI, Rockaway, May (Ds); Yaphank, May (BM). Breeds in dead limbs of hickory (Felt).

## ATIMIA Haldeman

- 14772 *A. confusa* Say. Syracuse (Blkm); West Pt. (Robn). In cedar and pine (Felt). Two broods of adults each year in the southern States, one in the spring and the other in the early fall (Fisher).

## ELYTROLEPTUS Duges

- 14777 **E. floridanus** Lec. **LI**: Yaphank, Central Pk., on *Quercus nana* (Ds); Pine-lawn, Huntington, Bellport, Wading R. (Schott, Nic, Shoe, Ds).

## TRAGIDION Serville

- 14792 **T. coquus** L. **LI**: Yaphank, Sep, Riverhead, Aug (Ds); Coram (Eng); Rockaway, Sep (Shoe, Schmelter); Coney I. (Schmelter); Jamaica (Nic). Larva in oak (Felt).

## PURPURICENUS Germar

- 14795 **P. humeralis** Fab. Mt. Whiteface, J1 (Ds); Syracuse (Blkm); Geneva, J1, *Cls*; Croton, J1 (Ds); Albany (NYS); West Pt. (Robn); **SI**, Je (L&D); **LI**, Je (Shoe, Woodr); Rockaway, Je (Ds). Larva in oak, chestnut, and birch (Fisher).  
 14796 **P. axillaris** Hald. Syracuse, bred from hickory (B&S); vic. NYC (AM). Larva in oak and chestnut (Fisher).

## BATYLEOMA Casey

- 14857 **B. suturale** Say. Karner, Je, on pine (Felt); Mosholu, J1 (AM); Garri-son, J1 (AM); Peekskill (Sherm); West Pt., J1 (BM); Ft. Montgom-ery, Yonkers, J1 (AM); **SI**, J1-Aug (L&D); **LI**, J1 (Shoe). Larva in chestnut, oak, and hickory (Fisher).

## CYRTINUS LeConte

- 14893 **C. pygmaeus** Hald. Buffalo (Z&R); Westchester Co (AM); **SI**, Je (L&D); **LI**, J1 (Shoe, Ds); Yaphank, J1 (Ds); Greenport, Aug (Ds); Bellport, J1 (Nic). In oak, hickory, box elder, and locust (Felt). Larva in maple, locust, dogwood, hickory, oak, and tulip poplar (Fisher).

## PSENO CERUS LeConte

- 14894 **P. supernotatus** Say. Plattsburg, J1 (Ds); Cranberry L., J1 (Drk); Roch-ester (M&W); Olcott, May-J1 (Dt); Buffalo (Z&R); E. Aurora (Dnd); Batavia, Je (Ds); Castile, Je, *Brad* (Flet); Ithaca, Je-J1 (Dt-CU); Windsor, Je (Not); West Pt. (Robn); **SI**, May-J1 (L&D); **LI**, May-Je, *Shoe* (Ds). Thirty more records (Lg). On dogwood (Felt). Injurious to stems of currant (Lg). Larva in elm, tulip poplar, willow, Virginia creeper, and currant (Fisher).

## MONOCHAMUS Serville

- 14895 **M. titillator** Fab. Cranberry L., Je (Mund); Syracuse (Blkm); Buffalo (Z&R); West Pt. (Robn); **SI**, Je-Aug, on pine (L&D); **LI**: Rocka-way Beach, Je, Yaphank, J1 (Ds). Twenty-two more records (Lg). Larva in pine (Fisher).  
 14901 **M. notatus** Drury (*confusor* Kby.). THE SAWYER. Cranberry L., J1-Aug, under spruce bark (Mund); Syracuse (Blkm); Buffalo (Z&R); Ithaca, Je-J1 (CU); L. George (BM); Elka Pk (Blkm); West Pt. (Robn); Westchester (Ds); **SI**, Aug, on pine (L&D). Thirty more records

(Lg). Injurious to pine, spruce, and balsam (Felt). Larva in pine (Fisher).

- 14904 **M. scutellatus** Say. WHITE SPOTTED SAWYER. Axton (Houghton); Mt. Whiteface, J1 (Ds); Long L., Wilmington, Aug (Ds); Cranberry L., Je-J1, common in balsam (Mund); Syracuse (Blkm); Buffalo (Z&R); Elka Pk. (Drk); Ithaca, Je-J1 (Dt); Greene Co (Drk); Catskills, Je-Sep, in spruce and larch (B&S); West Pt., bred from white pine (Robn); **SI**, Je, on pine (L&D). Thirty more records (Lg). Larva in pine and spruce (Fisher).
- 14905 **M. marmorator** Kby. Wilmington, Aug (Dt); St. Lawrence Co (Drk); Mt. Whiteface, Aug (Dt); Cranberry L., Je, from dead balsam (Mund); Elka Pk. (Blkm). Larva in balsam fir (Fisher).

#### DORCHASCHEMA LeConte

- 14909 **D. alternatum** Say. **SI**, Je-Aug, on osage orange and mulberry (L&D). Larva in mulberry (Fisher).
- 14910 **D. nigrum** Say. Syracuse, Je-J1, bores in hickory limbs (B&S); Rochester (M&W); Buffalo (Z&R); Poughkeepsie, Je (NYS); West Pt. (Robn); Pine L., Je, on hickory (Ds); Nyack, Je (Ds); **LI**, J1 (BM). Larva in hickory (Fisher).

#### HETOEMIS Haldeman

- 14911 **H. cinerea** Oliv. Syracuse, Je-J1, from hickory (B&S); Poughkeepsie, J1 (NYS); Peekskill (Sherm); Pine L., on hickory (Ds); **SI**, J1 (L&D). Bred from osage orange, mulberry, and hickory (Hamilton). On walnut (Felt). In linden and hackberry (Fisher).

#### CACOPLIA LeConte

- 14912 **C. pullata** Hald. Rochester (M&W); Buffalo (Z&R). On oak (Felt).

#### HAMMODERUS Thomson

- 14915 **H. tessellatus** Hald. **SI**, J1, on oak shoots (Linell). Larva in oak, chestnut, and shadbush (Fisher).

#### GOES LeConte

- 14917 **G. tigrinus** DeG. Syracuse (Blkm); Buffalo (Z&R); Ithaca, J1 (Fisher-US); West Pt. (Robn); Bronx, J1 (AM); **SI**, J1, on oak (L&D); **LI**: (Shoe); Jamaica, J1-Aug (Pears). Larva in hickory, oak, and walnut (Felt).
- 14918 **G. pulcher** Hald. Rochester (M&W); Buffalo (Z&R); Menands, J1 (NYS); West Pt. (Robn); Nyack (AM); West Farms (AM); **SI**, J1-Aug, on hickory (L&D); **LI**: Je (Ds); Flatbush, Je (BM). Larva in hickory (Fisher).
- 14919 **G. pulverulentus** Hald. Syracuse (Blkm); Rochester (M&W); Buffalo (Z&R); Ithaca, J1, on black oak (CU); Saratoga (Lec); Albany, Je (NYS); West Pt. (Robn); Ramapo, J1 (Ds); **SI**, J1 (L&D); **LI**: Brooklyn, J1, on scarlet oak (Shoe); Wyandanch, J1 (Schott). In oak, ironwood, hornbeam, beech, and wild cherry (Wickham). Larva in elm, sycamore, blue beech, and ironwood (Fisher).

- 14921 **G. laurenticus** Csy. "Northern NY" (Csy).  
 14922 **G. debilis** Lec. Rochester (M&W); Buffalo (Z&R); Albany, May (Yg); North Castle (AM); **LI**: Bellport, JI (Nic); Brooklyn, Je-JI, on oak trees (Shoe). Larva in oak (Fisher).

## MICROGOES Casey

- 14923 **M. oculatus** Lec. Mt. Whiteface, JI (Ds); Cranberry L., Je-JI, bred from maple (Mund); Rochester (M&W); Buffalo (Z&R); Ithaca, Je-JI (Dt); L. Henderson, Aug (Lg); Catskills (Pears); Big Ind. Val., JI (Shoe). Larva in dogwood, chestnut, and beech (Fisher).

PSAPHAROCHRUS Thomson<sup>53</sup>

- 14931 **P. quadrigibbus** Say. Rochester (M&W); Katonah, Aug (AM); **LI**: (Lg); New City, JI (Frost). Larva in many varieties of hardwoods (Fisher).

AEGOMORPHUS Haldeman<sup>54</sup>

- 14932 **A. decipiens** Hald. Syracuse, Je, bred from hickory (B&S); Rochester (M&W); Lake Bluff, JI (NYS); Buffalo (Z&R); Cattaraugus Co, JI (Ds); Karner, May (NYS); West Pt. (Robn); **SI**, Je, reared from hickory and maple (L&D); **LI**: Je-JI (Shoe); Yaphank, JI-Aug (Ds). Larva in many varieties of hardwoods (Fisher).

## LEPTOSTYLUS LeConte

- 14943 **L. aculifer** Say. Buffalo (Z&R); West Pt. (Robn); **SI** (L&D); **LI**: Jamaica (Pears). Larva in apple, elm, walnut, hickory, dogwood, tulip poplar, Rhus, and redbud (Fisher).  
 14954a **L. collaris** Hald. var. **interruptus** Hald. "NY" (Guex); West Pt. (Robn); Bronxville, JI (Woodr). Larva in chestnut (Fisher).  
 14957 **L. biustus** Lec. **SI** (L&D); **LI**: Aug-Sep (Ds); Brooklyn, JI (Shoe); Jamaica, JI (Pears); Shelter L., Aug, Orient, Sep (Ds); Greenport, Aug (BM). Larva in hackberry, mulberry, and Rhus (Fisher).

## ASTYLOPSIS Casey

- 14960 **A. macula** Say. Mt. Whiteface, JI (Ds); Cranberry L., JI-Aug, bred from maple (Mund); Syracuse (Blkm); Rochester (M&W); Olcott, JI-Aug (Dt); Buffalo (Z&R); E. Aurora (Dnd); Ithaca, Aug (Dt); W. Hebron, Je (Lg); Big Ind. Val., Aug (BM); West Pt. (Robn); Pine L., Je (Ds); Ft. Montgomery, May (Ds); **SI**, Je-JI (L&D); **LI**: Half Way Hollow Hills, Yaphank, JI (Ds). Larva in apple, elm, hickory, dogwood, chestnut, etc. (Fisher).  
 14961 **A. guttata** Say (*sexguttata* Say, *commixta* Hald.). Cranberry L., JI (Mund); Syracuse, bred from pine (Blkm); Rochester (M&W); Crittenden (Blkm); Olcott, Aug (Dt); Buffalo (Z&R); West Pt. (Robn); White Plains, Je (Frost, Sq); **SI**, Je-JI (L&D); **LI**: Wading R., JI (Ds); Oakdale, Aug (BM). Bred from larch (Blk). Larva in pine and spruce (Fisher).

<sup>53</sup> Formerly included in Acanthoderes.<sup>54</sup> Formerly included in Acanthoderes.



## ASTYLIDIUS Casey

- 14963 **A. parvus** Lec. "NY" (Lg). Larva in bittersweet, mulberry, poison ivy, and box elder (Fisher).

## LEIOPUS Serville

- 14968 **L. variegatus** Hald. Wilmington, J1 (Shoe); Syracuse, J1 (Drk); Rochester (M&W); Buffalo (Z&R); Pike, J1 (NYS); Albany, J1 (NYS); West Pt. (Robn); Van Cort. Pk. (AM); **SI**, Je, Aug (L&D); **LI**: Yaphank, J1 (Ds). Larva in many varieties of hardwoods (Fisher).
- 14971 **L. crassulus** Lec. W. Hebron, Je (Lg); Callicoon, J1, on willow (Schaupp); Catskills, Je (Pears); **SI**, J1 (L&D); **LI**: Yaphank, J1 (Ds).
- 14975 **L. punctatus** Hald. Karner, Je (NYS); **SI** (L&D); **LI**: Je-J1 (Ds); Half Way Hollow Hills, Yaphank, Riverhead (Ds). Larva in Virginia creeper, dogwood, and plum (Fisher).
- 14976 **L. fascicularis** Harris. Ithaca, Sep (Dt); W. Hebron, Je (Lg); West Pt. (Robn); Bronxville, Je (Woodr); **SI** (L&D); **LI**: Brooklyn, J1 (Shoe).
- 14979 **L. vicinus** Hald. "NY" (Fitch).
- 14983 **L. obscurellus** Csy. Northern NY (Csy).
- 14984 **L. cinereus** Lec. Syracuse (Bkm); Rochester (M&W); Buffalo (Z&R); **LI**, Je-J1, *Nic* (Schaupp).
- 14985 **L. alpha** Say. Syracuse, bred from hickory (B&S); Rochester (M&W); Olcott, Je, Aug (Dt); Buffalo (Z&R); E. Aurora (Dnd); Ithaca, J1 (Dt); West Pt., Je (Ds); Pine I., Je (Ds); **SI**, Je-Aug, hatched from sumac (L&D); **LI**, J1-Aug, widely distributed (Ds). Twenty-seven more records (Lg). Larva in many varieties of hardwoods (Fisher).

## LEPTURGES Bates

- 14994a **L. confluens** Hald. var. **angulatus** Lec. Buffalo (Z&R); Big Ind. Val., Je-J1 (Shoe); Mosholu (BM).
- 14995 **L. symmetricus** Hald. Cranberry L., J1 (Mund); Newport, Je (Yg); Rochester (M&W); Buffalo (Z&R); Pine I., Je (Ds); Van Cort. Pk. (Pears); **SI**, Je (L&D). Larva in walnut, hickory, chestnut, hackberry, mulberry, linden, and box elder (Fisher).
- 14998 **L. signatus** Lec. Rochester (M&W); Olcott, Je, Aug (Dt); Buffalo (Z&R); E. Aurora (Dnd); Ithaca, Aug (Dt); Coy Glen, Aug (Dt); W. Hebron, Je (Lg); West Pt. (Robn); Big Ind. Val., Je-J1 (Shoe); Bronxville, Je-J1 (Woodr); **SI**, Je-Aug (L&D); **LI**, Je (BM). Larva in maple, beech, mulberry, poison ivy, box elder, and hickory (Fisher).
- 14999 **L. tenebrosus** Csy. Northern NY (Csy).
- 15001 **L. querci** Fitch. Syracuse, bred from hickory, oak, butternut, and redbud (B&S); E. Aurora (Dnd); Olcott, J1-Aug (Dt); Buffalo (Z&R); Avon, Je, *Cls*; Ithaca, Aug (Dt); W. Hebron, Je (Lg); West Pt. (Robn); White Plains, Je-J1 (Frost,Sq); Pine I., Je (Ds); Nyack, Je (Ds); **SI**, Je, J1, Aug (L&D); **LI**: Aqueduct, Yaphank, J1, Greenport, Aug (Ds). Larva in chestnut, walnut, apple, bittersweet, oak, elm, butternut, ironwood, poison ivy, and linden (Fisher).
- 15003 **L. facetus** Say. Rochester (M&W); Buffalo (Z&R); West Pt. (Robn); Mosholu (BM); Van Cort. Pk. (AM); **SI** (L&D). Larva in *Crataegus Crus-galli* (Fisher).

## HYPERPLATYS Haldeman

- 15005 **H. maculata** Hald. Plattsburg, J1 (Ds); Mt. Whiteface, J1 (Ds); Cranberry L. (Mund); Syracuse (Blkm); Rochester (M&W); Olcott, J1-Aug (Dt); Erie Co (Dnd); Ithaca, Je (Dt-CU); Albany (Lint); Karner, Je (Yg); near Athens, Je (Yg); Bronxville, J1 (Woodr); Bronx (BM); **LI**: Brooklyn, Je-J1 (Shoe); Greenport, J1 (BM). Bred from dead twigs of oak and other trees (Felt). Larva in Rhus, locust, dogwood, walnut, box elder, and sumach (Fisher).
- 15011 **H. nigrella** Hald. Mt. Whiteface, Slide Mt., J1 (Shoe); Bronxville, May (Woodr); **SI** (L&D).
- 15013 **H. variolata** Csy. NY, type locality (Lg Cat.).
- 15015 **H. binocularis** Csy. NY, type locality (Lg Cat.).
- 15016 **H. aspersa** Say. Syracuse (B&S); Olcott, J1-Aug (Dt); Erie Co (Dnd); Buffalo (Z&R); Castile, *Brad* (Flet); Wyoming Co, Je (Ds); Avon, Je, Geneva, J1, *Cl*s; Ithaca, Aug (Dt); West Pt. (Robn); Ft. Montgomery, J1 (Ds); West Plains (Fall, Sq); **SI**, Je-J1, Sep, hatched from hickory, chestnut, poplar, apple; currant also given as food plant (L&D); **LI**: Shelter I., Aug (Ds); Aqueduct, Half Way Hollow Hills, J1, Wading R., Je, Yaphank, Sep (Ds). Thirty more records (Lg). Larva in chestnut, currant, willow, butternut, dogwood, and wild cherry (Fisher).

## CERATOGRAPHIS Gahan

- 15020 **C. biguttatus** Lec. "NY" (Lec); Ithaca, Je 12, 1915 (Dt).

## GRAPHISURUS Kirby

- 15021 **G. fasciata** DeG. Cranberry L., Je, larva in yellow birch, J1, from dead spruce, cedar, beech (Mund); Syracuse, bred from hickory (B&S); Olcott, May-Aug (Dt); Buffalo (Z&R); Castile, *Brad* (Flet); Ithaca, Je-J1 (Dt); Moshulu, May (Ds); West Pt. (Robn); NYC, Sep (Brb); **SI**, Je-Sep, hickory, oak, chestnut, and maple (L&D); **LI**: Aqueduct, J1 (Ds). Twenty-five more records (Lg). An oak and pine borer (Felt). Larva in a variety of hardwoods (Fisher).
- 15021a **G. fasciata** var. **reducta** Csy. NY, type locality.
- 15022 **G. hebes** Csy. NY, type locality (Lg Cat.); Syracuse (Blkm). Larva in hickory (Fisher).
- 15023 **G. triangulifera** Hald. Whiteface Mt., Je (Shoe); **LI**: Aqueduct, J1 (Shoe). Bores in hackberry (Felt, quoting Packard). Larva in hackberry (Fisher).

## ACANTHOCINUS Stephens

- 15024 **A. obsoletus** Oliv. Buffalo (Z&R); Karner (NYS); West Pt. (Robn); Nyack (Zab); **LI**: Bellport, J1 (Nic); Rockaway, J1 (Shoe); Ronkonkoma, Aug (US).
- 15026 **A. pusillus** Kby. Severance, J1 (NYS); Cranberry L., Je-J1, bred from spruce and hemlock (Mund); Buffalo (Z&R); Albany, Jan (NYS).
- 15034 **A. nodosus** Fab. Geneva, Je-Aug, *Cl*s; **LI**: Bay Shore, Aug 25, 1910, at light (Ols). Larva in pine (Fisher).

## DECTES LeConte

- 15037 *D. spinosus* Say. Rochester (M&W); Buffalo (Z&R); Kenwood, Je (Yg); Pine I., Je (Ds); Mosholu (BM); **SI**, breeds in stems of ragweed and Xanthium? (L&D); **LI**: Amagansett, Aug (BM). Larva in living stems of ragweed, Eupatorium, and Xanthium (Fisher).
- 15041 *D. brevis* Csy. **LI**, type locality (Lg Cat.).

## HOPLOSIA Mulsant

- 15047 *H. nubila* Lec. Mt. Whiteface, J1 (Ds); Syracuse, bred from basswood (Blkm); Buffalo (Z&R); E. Aurora (Dnd); Big Ind. Val., Je (Shoe); West Pt. (Robn); West Farms (AM). On basswood twigs (Felt). Larva in linden (Fisher).

## POGONOCHERUS Latreille

- 15049 *P. penicillatus* Lec. Mt. Whiteface, J1 (Ds); Cranberry L., Je (Mund); Syracuse, bred from spruce twigs (Blkm). On sumac (Felt). Larva in spruce (Fisher).
- 15053 *P. parvulus* Lec. Buffalo (Z&R).
- 15054 *P. salicicola* Csy. Ithaca, Je (Dt). Larva in willow (Fisher).
- 15056 *P. mixtus* Hald. Mt. Whiteface, J1 (Ds); Saranac, Feb, Aug (NYS); Cranberry L., J1 (Drk); Syracuse, Crittenden, bred from white pine and larch (B&S); Rochester (M&W); Buffalo (Z&R); Ithaca, J1 (CU); Karner, J1 (NYS); W. Hebron, Je (Lg); West Pt. (Robn); **SI**, Je (L&D); **LI**: Massapequa, J1 (Shoe); Rockaway, Je, Aug (Woodr); Yaphank, Long Beach (BM). On hard pine and willow (Felt). Larva in spruce and pine (Fisher).

## ECYRUS LeConte

- 15067 *E. dasycerus* Say. Rochester (M&W); Buffalo (Z&R); Ithaca, J1-Aug (Dt); L. George (Zab); West Pt. (Robn); Ft. Montgomery, J1 (Ds); **SI**, Je, on hickory, tulip, and locust (L&D); **LI**: Aqueduct, Central Pk., Half Way Hollow Hills, Yaphank, J1 (Ds). Larva in locust, hickory, and oak (Fisher).

## EUPOGONIUS LeConte

- 15069 *E. tomentosus* Hald. Wilmington, Je (Lg); Rochester (M&W); Buffalo (Z&R); Westfield, Je (NYS); Mosholu (BM); **LI**: Riverhead, Aug (Ds); Bellport, J1 (Nic); Flatbush, J1 (Zab); Rockaway Beach, Je (BM). Larva in pine and spruce (Fisher).
- 15070 *E. vestitus* Say. Syracuse, J1 (Drk); Rochester (M&W); Buffalo (Z&R); E. Aurora, one only, rare (Dnd); Mosholu (AM); Pine I., Je (Ds); **SI**, J1, dogwood, hickory, walnut, chestnut (L&D); **LI**: Jamaica (Pears); Aqueduct, J1 (Shoe); Greenport, Aug (BM). Larva in walnut, dogwood, mulberry, ash, redbud, maple, honey locust, poison ivy, elm, linden, and oak (Fisher).
- 15072 *E. subarmatus* Lec. Rochester (M&W); Buffalo (Z&R); E. Aurora, rare (Dnd); Catskills (Pears); Nyack, on linden (Lg). Larva in linden (Fisher).

## LYPSIMENA LeConte

- 15075 *L. fuscata* Lec. "NY" (Lec).

## ONCIDERES Serville

- 15088 *O. cingulatus* Say. Buffalo (Z&R); Ithaca, Aug (Dt); Coy Glen, Fall Cr., Aug (Dt); West Pt. (Robn); White Plains, Aug (Frost,Sq); Bronxville, Aug (Woodr); **SI**, in autumn, on hickory (L&D); **LI**: Yaphank, Aug, Oct (Ds); Prospect Pk., Aug (Yg); Westbury, Sep (Champlain); Flushing, Cold Sp. Harb. (BM). Larva in hickory, elm, poplar, and various hardwoods (Fisher).

## HIPPOPSIS Serville

- 15098 *H. lemniscata* Fab. Rochester (M&W); **SI**: Richmond, Jl 15, 1919 (Bs); **LI**: Jamaica (Pears); Floral Pk., Jl (Not). Larva in stems of ragweed (Fisher).

## SAPERDA Fabricius

- 15109 *S. obliqua* Say. Cranberry L., Jl (Mund); Elka Pk., Aug (Drk); Syracuse (Blkm); Olcott, Jl (Dt); Buffalo (Z&R); West Pt. (Robn); Bronx Pk. (Joutel); **SI**, Jl, makes galls on alder near roots (L&D); **LI**: Newtown (Ds); Queens, May-Je (Eng); Flushing, Jamaica, Je (BM).
- 15110 *S. mutica* Say. "Western NY" (Lec); Buffalo (Z&R). Larva in willow (Fisher).
- 15112 *S. candida* Fab. ROUND-HEADED APPLE BORER (L&D). Mt. Whiteface, Jl (Ds); Syracuse (H); Rochester (M&W); Buffalo (Z&R); Branchport (Lint); McLean Bogs, Aug (Yuasa); Washington Co (Fitch); W. Hebron, Je (Lg); Olivera, Je (Ds); Elka Pk. (Blkm); West Pt. (Robn); Pine L., Je (Ds); Ft. Montgomery, Jl (Ds); **SI**, Je-Aug (L&D); **LI**: Brooklyn, Je (Ds). Twelve more records (Lg). Larva in apple, often injurious; also in pear, thorn, and most pomaceous trees and shrubs.
- 15113 *S. calcarata* Say. POPLAR BORER. Keene Val., Aug (BM); Syracuse (Blkm); Mt. Whiteface, Jl (Ds); Rochester (M&W); Olcott, Jl (Dt); Buffalo (Z&R); E. Aurora (Dnd); Cattaraugus Co, Jl (Ds); Ithaca, Sep (Reed); Albany (Joutel); West Pt. (Robn); **LI**: Brooklyn, Aug, on *Populus alba* (Ds, Joutel). Eighteen more records (Lg). Larva in poplar (Fisher).
- 15113a *S. calcarata* var. *adspersa* Lec. Keene Val., Sep (BM); Mt. Whiteface, Jl (Ds); Brant L. (Doll); Albany (Joutel).
- 15114 *S. tridentata* Oliv. ELM BORER. Waddington, Aug (Woodr); Gloversville (Lint); Olcott, May (Dt); Rochester (M&W); Buffalo (Z&R); Castile, *Brad* (Flet); E. Aurora, Cortland Co (Dnd); Geneva, Je-Jl, *Cls*; Ithaca, Je-Jl (Dt); Albany (Lint); Hudson (BM); West Pt. (Robn); Mott Haven (Joutel); **SI**, May-Je, on elm (L&D); **LI**, Je (BM). Larva in elm (Fisher).
- 15115 *S. cretata* Newm. SPOTTED APPLE-TREE BORER. Ithaca (Philip Miller); Elmira, Je (Diven). Larva in apple, sometimes injurious.

- 15116 *S. discoidea* Fab. HICKORY SAPERDA. Syracuse, bred from hickory (B&S); Genesee, Ap (NYS); Buffalo (Z&R); West Pt. (Robn); Pine I., Je (Ds); Bronx Pk. (Joutel); **SI**, Jl-Sep, on hickory and walnut (L&D); **LI**: Aqueduct, Jl (Ds). Larva in hickory and walnut (Fisher).
- 15117 *S. vestita* Say. LINDEN BORER. Adirondacks (Felt); Newport, Je (NYS); Syracuse (Blkm); Rochester (M&W); Olcott, Je (Dt); Buffalo (Z&R); E. Aurora, Protection (Dnd); Hamburg, Aug (NYS); Avon, Geneva, Je, *Cls*; Ithaca, Jl, Sep (Dt-CU); W. Hebron, Je (Lg); Greene Co (Zab); Sullivan Co, Je (Ds); West Pt. (Robn); Nyack, Je (Ds); **LI**: Flushing, Je (BM). Larva in linden (Fisher).
- 15118 *S. imitans* Felt & Joutel. Cranberry L., Jl (Drk); Syracuse, bred from hickory (B&S). Larva in hickory, willow, linden, and cherry (Fisher).
- 15119 *S. lateralis* Fab. Buffalo (Z&R); Conesus L., Je (Ds); Schoharie (Not); Albany, Je (NYS); W. Hebron, Je (Lg); Poughkeepsie, Je (NYS); West Pt. (Robn); Pine I., Je (Ds); Ft. Montgomery, May (Ds); Nyack, Je (Ds); Bronx Pk. (Joutel); **SI**, Je, on hickory (L&D); **LI**: Wyandanch, Jl, Yaphank, Je-Jl (Ds); Brooklyn (Joutel). Larva in hickory, elm, maple, linden, ash, and oak (Fisher).
- 15119a *S. lateralis* var. *connecta* Felt & Joutel. "NY" (Joutel).
- 15120 *S. fayi* Bland. Rochester (M&W); Buffalo (Z&R); Schenectady, Je (NYS); Bronx (BM). Breeds in small limbs of wild thorn (Joutel).
- 15121 *S. puncticollis* Say. Syracuse (Blkm); Rochester (M&W); Buffalo (Z&R); Geneva, *Cls*; **SI**, Je (L&D). Larva in Virginia creeper (Fisher).
- 15122a *S. populnea* L. var. *moesta* Lec. Wilmington, Jl (Shoe); Gloversville, May (NYS); Rochester (M&W); Buffalo (Z&R); Karner, May (NYS); Feeds on balsam poplar (Joutel).
- 15123 *S. concolor* Lec. Syracuse (Blkm); Allegany Pk., Cortland Co (Dnd); Windsor, Je (Not); White Plains, Je (Frost, Sq). Larva makes galls on poplar and willow (Fisher).
- 15123a *S. concolor* var. *unicolor* Felt & Joutel. Mt. Whiteface, Jl (Ds); Rochester (M&W); Genesee (NYS); Buffalo (Z&R); Albany (NYS); West Pt. (Robn); Van Cort. Pk. (Bt); **SI**, on dwarf willow (L&D); **LI**: Yaphank, May, Wyandanch, Jl (Ds); Flatbush, Hempstead Plains, May (BM).
- 15123b *S. mecasoides* Csy. NY, type locality (Lg Cat.); **SI** (Soltau-US by Fisher).
- *S. shoemakeri* Ds. Slide Mt., Jl; **LI**: Wyandanch, Jl, Yaphank, May (Ds).

#### OBBEREA Mulsant

- 15134 *O. schaumii* Lec. Wilmington, Jl (Shoe); Mt. Whiteface, Jl (Ds); Albany, May (NYS); Karner, Je (NYS). Larva in poplar (Fisher).
- 15137 *O. pallida* Csy. Cranberry L., Sep (Stage).
- 15138 *O. tripunctata* Swed. Olcott, Je-Jl (Dt); Ithaca, Je, Aug (Dt); McLean, Jl (Dt); Elka Pk., Jl, on flower (Blk); Callicoon, Jl (Lg); West Pt., Je (Robn); Pine I., Je (Lg); Ramapo, May, Nyack, Je (Lg); White Plains, Je-Jl (Frost, Sq); **SI**, Je-Jl (L&D); **LI**: Flushing, Je (BM). Thirty-six more records (Lg). The varieties *myops* Hald. and *man-*



*darina* Fab. are not differentiated in the records (Lg). Larva in plum, apple, quince, peach, elm, and dogwood (Fisher).

- 15139 **O. praelonga** Csy. "Northern NY" (Csy).  
 15144 **O. filum** Csy. Windsor, Je (Not).  
 15145 **O. basalis** Lec. Buffalo (Z&R); Schuyler Co, Je (H); Schoharie (Not); West Pt. (Robn); **SI**, Jl (Ds); **LI**: Half Way Hollow Hills, Jl (Ds); Bellport, Je-Jl (Nic); Richmond Hill (Logan). Twelve more records (Lg). This is perhaps only a variety of *bimaculata* Oliv.  
 15146 ?**O. iowensis** Csy. Nyack, Je (Ds); **SI**, Je-Jl (Ds).  
 15147 ?**O. insignis** Csy. **LI**: Massapequa, Jl (Ds).  
 15148 **O. bimaculata** Oliv. var. *tripunctata* Fab. RASPBERRY-CANE BORER. Cranberry L., Jl (Mund); Syracuse, Jl, on flowers (Blk); Buffalo (Z&R); E. Aurora (Dnd); Ithaca, Aug (Dt-CU); Windsor, Je (Not); West Pt. (Robn); White Plains, May-Jl (Frost,Sq); **SI**, Je-Jl (L&D). Twenty-two more records (Lg).  
 — **O. bimaculata** var. *affinis* Harris. Redford, Je (Shoe); Batavia, Jl (Ds); McLean Bogs (CU); Taughannock Falls, Aug (CU); DeBruce, Jl (Shoe).  
 15152 **O. ocellata** Hald. EYE-SPOTTED APPLE-TWIG BORER. Wilmington, Aug (Ds); Rochester (M&W); Karner (Yg); Peekskill, Je (Sherm); West Pt. (Robn); Orange Co, Je (Zab); Bronx (Woodr); Van Cort. Pk., Aug (BM); **LI**: Smithtown, Aug (Ds); Jamaica (Pears); Rockaway, Je (Shoe). The var. *discoidea* Horn should also be found (Lg). Larva sometimes injurious to new growth or twigs of apple; also in Rhus (Fisher).  
 15153 **O. ruficollis** Fab. Rochester (M&W); Buffalo (Z&R); White Plains, Jl (Frost, Sq); Riverdale, Jl (Woodr); **SI**, Je (L&D); **LI**: Brooklyn, Jl (Shoe); Flushing, Je (BM). Larva in sassafras and spicebush (Fisher).  
 15154 **O. gracilis** Fab. **SI** (L&D); **LI**: Yaphank, Je, Riverhead, Aug (BM).

#### TETRAOPES Serville

- 15162 **T. canteriator** Drap. West Pt. (Robn); White Plains, Jl (Frost,Sq); **SI**, Je-Jl (L&D); **LI**: Wading R., Orient (Ds); Selden, Half Way Hollow Hills, Jl-Aug (Ds). Twenty-seven more records (Lg). Larva in roots of milkweed (Fisher).  
 15170 **T. tetraophthalmus** Forst. Plattsburg, Jl (Ds); Wilmington (Ds); Cranberry L., Jl (Mund); Olcott, Je (Dt); Buffalo (Z&R); E. Aurora (Dnd); Castile, Aug, *Brad* (Flet); Geneva, Avon, Je, *Cls*; Ithaca, Jl; Freeville (Ds); West Pt. (Robn); White Plains, Jl (Frost, Sq); **SI**, Je-Jl (L&D); **LI**: Woodhaven, Je (Dt); Orient, Wading R., Jl (Ds). Fifty-six more records (Lg). Larva in roots of milkweed (Weiss).

#### AMPHIONYCHA LeConte

- 15186 **A. flammata** Newm. E. Aurora, beaten from sprouts about basswood stump, Je (Dnd); Olcott, Jl (Dt); West Pt. (Robn); Nyack, Je (Ds).

FAMILY CHRYSOMELIDAE<sup>55</sup>

## SUBFAMILY DONACIINAE

Compiled by CHAS. SCHAEFFER

## DONACIA Fabricius

- 15199 *D. militaris* Lac. (*floridae* Lg.). Carmel, White Plains, Aug, *Sq* (Sf).  
On flowers and leaves of white water lily, *Castalia odorata*.
- 15202 *D. piscatrix* Lac. Saranac Inn, Lake Bluff, Big Moose (NYS); Horicon, Brant L., *Doll*; L. George, JI, *Fisher*; Ballston L., Je, *Leon*; Pine L., Je, *Ds*; White Plains, May-JI, *Bno*, *Sq* (Sf); **SI**, Je, *L&D*; **LI**: (Eng); Ronkonkoma, Je, *Schott*. On flowers and leaves of yellow water lily, *Nymphaea advena*.
- 15199 *D. palmata* Oliv. Keene Val., JI, *Not*; Potsdam (NYS); Long L., *Ds*; Adirondack Lodge, Je, *Leon*; Horicon, *Doll*; L. George, JI, *Fisher* (US Biol. Surv.); Athens, JI, *Schott*; Carmel, Aug, *Sq*; Rockland L., JI, *Schott*; White Plains, May-Aug, *Bno*, *Sq* (Sf); **SI**, *Ds*. On flowers and leaves of yellow water lily.
- *D. texana* Cr. var. *minor* Sf. Rockland L., JI, *Schott*; White Plains, JI, *Sq*, Aug, *Bno*; **SI** (Lg). On yellow water lily.
- 15201 *D. rufescens* Lac. L. George, Aug, *Sherm*; Peekskill, *Sherm*; **SI**: Silver L. (L&D); **LI**: Wyandanch, JI-Sep, *Schott* (Sf). Generally on flowers and leaves of white water lily; occasionally on *Brasenia*.
- *D. edentata* Sf. Crum L., Je, *Ds*; **LI**: Montauk Beach, JI, *Schott*. On flowers and leaves of white water lily.
- *D. parvidens* Sf. **LI**: Yaphank, May (Sf); Wyandanch, May, *Schott*, Dec, sifting, *Not* (Sf); Wading R., Je, *Shoe*. On flowers and leaves of white water lily.
- 15198a *D. cincticornis* Newm. Our most common species; occurs almost everywhere in the State. Ausable L., Aug, *Not*; Saranac L., Sep, *Shoe*; Long L., *Ds*; Horicon, *Doll*; Ballston L., Aug, *Leon*; Carmel, Aug, *Sq*; **SI**: Je, *L&D*; Silver L.; **LI**: Cold Sp. Harb., *Brb*; Bellport, JI, *Nic*; Yaphank, Je-JI, *Eng*; Wading R., Je, *Shoe*, *Schott*; Wyandanch, JI-Sep; Greenport, May, *Schott*. On flowers and leaves of white water lily, and on yellow water lily when the two occur together; also on *Brasenia*.
- *D. cincticornis* var. *tenuis* Sf. Tupper L., Aug, *Dyar* (Sf-US); Spencer L., Aug, *Dt*; Peekskill, *Sherm*; **LI**: Wyandanch, Wading R., *Schott*. On white water lily and *Brasenia*.
- *D. cincticornis* var. *rufipennis* Lac. "NY" (Dietz Coll.); **SI**: New Pond, Britton's Upper Pond, *L&D*. Adults and larvae found on Potamogeton by Boving and Craighead.
- 15198 *D. proxima* Kby. Ausable L., JI, *Not*; Horicon, *Doll*; Pike (NYS); Spencer L., Aug-Sep, *Dt*; Franklinton, Je, *Leon*; Ballston L., Aug, *Leon*; Orange L., Sep; White Plains, Aug, *Sq* (Sf). On flowers and leaves of the yellow water lily.
- 15199 *D. coerulea* Oliv. White Plains, May-Aug, *Sq*, *Bno*; Van Cort. Pk., May, *Nic*; **LI**: Baldwin, May, *Eng*. On leaves of the yellow water lily.

<sup>55</sup> Chas. Schaeffer of the Brooklyn Museum, well-known authority on the Chrysomelidae, has gone over the manuscript for this family, is responsible for some changes in synonymy, and has supplied many records and passed on the validity of as many as was practicable.

- 15194 *D. hirticollis* Kby. Rochester, *Moore*; Buffalo; Catskills; **LI**: Yaphank, Je, *Eng*.
- 15196 *D. pubescens* Lec. "NY" (Lec). This species is recorded by Blatchley as occurring on pickerel weed.
- 15203 *D. quadricollis* Say (*D. cupraea* Kby., *D. curticolis* Knab). Plattsburg;  
15204 Rochester, *Wendt*; Buffalo; Ithaca, Aug, *Marshall*; Spencer L., May, Aug, *Dt* (CU). Reported by Fred Knab on bulrushes.
- 15206 *D. rugosa* Lec. Hamilton Co (CU); Lake Bluff, Sodus, JI (NYS); Esopus, Aug, *Sherm*; Peekskill, *Sherm*; W. Nyack, Aug, *Beq*; **SI**, JI, on pickerel weed, *L&D*. On *Sagittaria* (Lg) and *Pontederia cordata* (Wenzel).
- 15216 *D. biimpressa* Melsh. (*torosa* Lec., *distincta* Lg. not Lec.). Wallface Mt., JI, *Not*, *Nic*; Ithaca, McLean, May (CU); Peekskill, May, *Sherm*; White Plains, May-Je, *Pollard*, *Sq* (Sf); Van Cort. Pk., *Nic*; **SI**, Je, *L&D*; **LI**: Long Beach, Rockaway Beach, *Eng*; Yaphank, May. On *Carex stricta* (Frost), and on various grasses, bur reeds (Sparganiaceae), and *Sagittaria* (Wenzel).
- *D. biimpressa* var. *limonia* Sf. Indian Pass, JI, *Quirs*; Concord, May; Ithaca, May; White Plains, Je, *Sq*; Van Cort. Pk.
- 15203 *D. subtilis* Kunze. Oakfield, Je, *Not*; Ithaca, Je, New Berlin (CU); Voorheesville, JI, Watervliet Reservoir, Aug, *Leon*; Easton, Thomson, May, *Leon*; W. Nyack, Aug, *Beq*; Pine L., Je, *Pollard*, *Ds*; White Plains, Je, *Sq*; **SI**, Je-JI, on Sparganium, *L&D*; **LI**: Yaphank, May, *Eng*; Kissena Pk., Mar, *Ols*. On Sparganium (Ds, Wenzel).
- 15203 *D. subtilis* var. *fulgens* Lec. Old Forge, Je (NYS); Saranac L., *Shoe*; Black R., Lowville, *Not*; Ithaca, *Dt* (CU); White Plains, *Sq*; **LI**: Yaphank, *Eng*.
- *D. tuberculifrons* Sf. Ithaca, May-JI, *Kngt* (CU). On yellow pond lily (Wenzel, Wolc), bulrushes (Liebeck), and Sparganium (Ds).
- *D. liebecki* Sf. **LI**: Wyandanch, Je, *Ds*, *Schott*; Wading R., Je, *Shoe*. On flowers and leaves of white water lily, also on yellow water lily and *Orontium aquaticum*.
- 15205 *D. megacornis* Blatch. (*megalocera* Weise). "NY" (AM); Long L., *Ds*; Kingston, JI (NYS); Rockaway, *Shoe*. On flowers and leaves of white and yellow water lily (Wenzel).
- 15209 *D. aequalis* Say. Black R., Lewis Co, Je, *Not*; Oakfield, Je, *Not*; Voorheesville, Je, *Leon*; **SI**, JI, swept from subaquatic plants, *L&D*. On Sparganiaceae and *Sagittaria* (Wenzel).
- 15218 *D. rufa* Say (*tuberculata* Lac.). Cranberry L., JI (Drk); Voorheesville,  
15210 JI, *Leon*; White Plains, JI, *Sq*; **SI**: Clove Val., JI-Aug, on *Sagittaria*, *L&D*.
- 15208 *D. harrisi* Lec. McLean, JI (CU); White Plains, JI (Sq); **LI**: near Brooklyn, JI, *Shoe*. On *Carex* (Frost).
- 15218 *D. sulcicollis* Lac. (*rufa* Lg. not Say). Newport, May (Yg); Keene Val., May-JI, Mt. Skylight, JI, *Not*; Portage, May, *Kngt*; Rock City, Je, *Ds*, Ithaca, May, *Dt*, McLean, May (CU); Tarbel, Je, *Ds*; Freeville, Je, *Dt*; Catskills, *Pears*; Nassau, JI (NYS); Thomson, May, *Leon*; Voorheesville, May, *Leon*; Mud Hollow Pond, Je, *Leon*; Peekskill, May, *Sherm*; White Plains, Je-JI, *Sq*; Suffern, Ramapo, Greenwood L.; **LI**:

Queens, Dow (Sf, Ds). Found on *Caltha palustris* and *Ranunculus acris* (Ds), on *Carex stricta* (Frost), and on leaves of skunk cabbage (Blatchley).

- 15217 *D. flavipes* Kby. Saranac L., Sep, *Shoe*; Sodus Pt., Je, *Not*; Rochester, *M&W*; Batavia, Je, *Kngt*; Oakfield, Je, *Not*; Ithaca, May-Je, *Dt*; Tivoli, May, *Not*; White Plains, Je (Sq); Greenwood L.; Bronx Pk., Ds; **SI**, Je, *L&D*. Occurs on *Peltandra* (Ds, Liebeck).
- 15217 *D. flavipes* var. *shoemakeri* Sf. Iona I., Rockland Co, May, *Schott*; Bronx Pk., Je, *Ds*.
- *D. nitida* Germ. Freeville, Je, *Knab*, *Dt*.
- *D. notmani* Sf. Wallface Mt., Jl, *Not*, *Nic*, *Quirs*.
- 15216 *D. emarginata* Kby. Elizabethtown, Je (NYS); Keene Val., May, *Not*; L. Clear, Je (NYS); Black R., Lowville, Je, *Not*; Cranberry L., Je (H); Ithaca (NYS); Ballston L., Aug, *Leon*; Catskills, *Pears*; Karner, Nassau, May (NYS); Mosholu, Ap; Bronxville, May, *Shoe*; **LI**: Brownsville, May, *Woodr*.
- *D. emarginata* var. *frosti* Sf. Sullivan Co, *Ds*; Peekskill, *Sherm*; Ramapo; **LI**: Queens, Dow (Sf, Ds).
- 15215 *D. metallica* Ahr. (*femoralis* Kby.). Elizabethtown, *Yg* (NYS); Newport, Je, *Yg* (NYS); Keene Val., Je, *Not*; Gloversville, Jl, *Alex* (NYS); Deer R., May (NYS); Portage, May, *Kngt*; Mud Cr., Tompkins Co, Je, *Ds*; West Pt., May, *Robn*; Mud Hollow Pond, Je, *Leon*. On Sparganiaceae and Sagittaria (Wenzel), on *Carex stricta* (Frost), and on *Ranunculus acris* (Ds).
- 15214 *D. germari* Mann. (*serricauda* Sf.). McLean Bogs, May, *Dt*; **LI**: Rockaway Beach, May, *Shoe*.
- 15213 *D. fulvipes* Lac. (*cuprea* Lec. not Kby.). Keene Val., Jl (NYS); Catskills, *Pears*; Suffern; **LI**: Wyandanch, Ap, sifting, *Shoe*; Orient, Oct, *Schott*. Swept from grasses and weeds growing in a low, moist meadow near a small creek.
- 15213 *D. pusilla* Say. Elizabethtown, Je (NYS); Black Br., Lowville, Je (Not); Remsen, Je (NYS); Pike, Je (NYS); Ithaca, May (CU). On rushes (H), and on *Carex stricta* (Frost).

#### HAEMONIA Latreille

- 15193 *H. nigricornis* Kby. Onondaga Co, May (H); Pike, Je, *Yg* (NYS); **LI**: Yaphank, Je, *Eng*; Wading R., May, *Schott*; Wyandanch, May.

#### SUBFAMILY ORSODACNINAE

##### ORSODACNE Latreille

- 15219 *O. atra* Ahr. Speculator, Je (Yg); Mt. Whiteface, Jl (*Shoe*); Ithaca, May-Je (Dt); Slide Mt., Je (Ds, *Shoe*); West Pt. (Robn); **SI**, Ap (L&D); **LI**: West Hills, Ap (Ds); Central Pk., Aug (Eng); Wyandanch, May (Sf); Massapequa, Ap (*Shoe*); Huntington, Ap (*Schott*). Abundant on willow catkins, Ap 3-19 (Robn).

- 15219a *O. atra* var. *childreni* Kby. Mt. Whiteface, JI (Shoe); Adirondack Lodge, Leon, Newport (Yg).  
 15219b *O. atra* var. *hepatica* Say. Newport, Je (Yg); Slide Mt., Je-JI (Shoe); LI: Central Pk., Ap-May (Eng, Sf); Wyandanch, May (Sf).  
 15219d *O. atra* var. *tibialis* Kby. Mt. Whiteface (Shoe); Newport, May (Yg); Oliverea (Shoe); LI: Central Pk., May (Sf).  
 15219e *O. atra* var. *trivittata* Lac. Mt. Whiteface, JI (Shoe); Newport, May (Yg); Oliverea, JI (Shoe); LI: Massapequa, Ap (Shoe).  
 15219f *O. atra* var. *vittata* Say. Boston, Je (Flet, Dnd); Schuyler Co, Je (H); LI: Central Pk., Ap-May (Eng, Sf); Wyandanch, May (Sf).

## SYNETA Laçordaire

- 15223 *S. ferruginea* Germ. Newport, May-Je, Speculator, Je (Yg); Mt. McIntyre, Je (Leon); Denmark, May (Yg); L. Placid, Sep (Shoe); Castile, Brad (Flet); Wyoming, Je (Ds); Wolcott, May (Cy); Westfield, May (Not); Spencer, Je (Ds); Ithaca, May-Je (Dt); McLean, May (Ds); Windsor, May, Je (Not); Oliverea, Je (Ds); Slide Mt., JI (Shoe); West Pt. (Robn); Nyack, May 1 (Schott); Nassau, May (Yg); Ramapo (Sf); SI (L&D); LI: Massapequa, May (Shoe); Wyandanch, Ap (Sf).

## ZEUGOPHORA Kunze

- 15227 *Z. kirbyi* Baly. Western NY (Lg Cat.).  
 15228 *Z. reineckei* Grt. Buffalo (Rein).  
 15230 *Z. consanguinea* Cr. L. Placid, Sep (Shoe); Mosholu (Sf); SI, JI (L&D); LI: Aqueduct, JI (Shoe).  
 15233 *Z. varians* Cr. Newport (Yg); L. Placid, Aug, *EPV* (Yg); Chazy L., Je (Yg); Horicon, Brant L., Aug (Doll); SI, May (L&D); LI: Brooklyn, Aug (Shoe); E. New York, Ap (Martin).

## SUBFAMILY CRIOCERINAE

## CRIOCERIS Geoffroy

- 15234 *C. asparagi* L. COMMON ASPARAGUS BEETLE. Rochester (Lint); Brighton, May, Robbins (Lint); E. Aurora, on asparagus (Dnd); Castile, Brad (Flet); Geneva, Je, Goff (Lint, Cls); Avon, May (Cls); Ithaca, Aug-Sep (Dt); Albany, JI (NYS); Tuxedo, May (Ds); West Pt. (Robn); White Plains, May-Sep (Sq); SI, May-Je, Aug (Ds); LI: Forest Pk., JI (Martin); Flatbush, Aug (Eng); Queens, JI (Sf); Brooklyn, Aug (Shoe); Huntington, Aug (Schott); Orient, Lath (NYS); Wading R., May (Schott); Selden, Aug (Ds); Rockaway Beach, May, Amagansett, Sep (Ds).  
 15235 *C. duodecimpunctata* L. Penfield (How); Lockport, Darrison (Felt); N. Hector, Je, Sm (Felt); Avon, JI (Cls); Pike (Felt); Brighton, May, Robbins (Lint); Buffalo (Felt); E. Aurora (Dnd); Fredonia, Almond (Barden); Westfield (Felt); Ithaca, JI-Sep (Dt); Coeymans, Albany, Sm (Felt); Manor, Oct (Felt); West Pt. (Robn); White



Plains, May-Sep (Sq); **SI**, Je, Sep (Ds); **LI**: Flatbush, Aug (Eng); Rockaway Beach, May (Eng, Shoe); Jamaica (Sf); Brooklyn, J1 (Shoe); Wading R. (Ds); Huntington, Je (Schott); Orient, *Lath* (NYS); Selden, Sep (Ds).

#### LEMA Fabricius

- 15240 **L. palustris** Blatch. Horicon, Brant L., Aug (Doll); Catskills, Je (Pears); Ramapo Mts. (Sf); **SI**, Je, on thistle (L&D), as *brunnicolis* Lec.
- 15253 **L. trilineata** Oliv. THREE-LINED POTATO BEETLE. Newport, Je (Yg); Iliion, May (Yg); Clyde, J1 (Lint); Olcott, J1 (Dt); Buffalo (Lint); Geneseo, J1 (Ds); Orleans Co, Je (Ds); E. Aurora, May (Dnd); Avon, J1 (Cls); Westfield, Je (NYS); Castile, *Brad* (Flet); Schuyler Co, Je (H); Ithaca, Je-J1, *Yuasa* (Vdyk); Schoharie, Je (Not); Karner, J1-Aug (NYS); Coeymans, *Sm* (Lint); Nassau, J1 (NYS); West Pt. (Robn); Nyack, Je (Ds); Rockland Co, May (Ds); Rye (Sq); **SI**, J1 (L&D); **LI**: Rockaway Beach, May (Shoe, Eng); Brooklyn, Aug (Shoe); Yaphank, Flatbush, Jamaica, J1 (Eng). Abundant on nightshade (Robn).
- 15255 **L. nigrovittata** Guér. Brooklyn Bot. Garden, *Eng* (Sf). Described from southern Calif. and Ariz., doubtless introduced.

#### SUBFAMILY CLYTRINAE

#### ANTIPUS DeGeer

- 15262 **A. laticlavata** Forst. Hamburg, Je (Eng); Ithaca, Je-J1 (Dt); Windsor, May, Je (Not); Schoharie, Je (Not); Poughkeepsie, Je (Yg); Pine I., Sep, West Pt., Je (Ds); Ft. Montgomery, J1 (Schott, Ds); Mosholu (Sf); Bronx Pk. (Sf); **SI**, Je (L&D); **LI**: Massapequa, Je (Shoe); Wading R., Je, Yaphank, J1 (Ds).

#### COSCINOPTERA Lacordaire

- 15267 **C. dominicana** Fab. Ithaca, Je (Ds); Schoharie, Je (Not); Hudson, Aug (Eng); Nassau, Je (Yg); West Pt. (Robn); **LI**: Pinelawn, Je, Amagansett, May (Eng); Woodhaven, May (Martin); Yaphank, Wading R., May (Ds). Larva lives with ants.

#### BABIA Lacordaire

- 15282 **B. quadriguttata** Oliv. Ithaca, Aug (Dt); Schoharie, Je (Not); Karner, Je, Kenwood, J1, N. Chatham, May, Poughkeepsie, Je (Yg); West Pt. (Robn); Ft. Montgomery, May (Ds); Greenwood L., Je (Love); West Pt., Je (Ds); Pine I., Je (Ds); Ramapo, Je (Ds); Nyack, Je (Ds); **LI**: Central Pk., Je (Shoe); Wading R., Yaphank, Je (Ds). Abundant on hickory (Robn).

#### SAXINIS Lacordaire

- 15292 **S. omogera** Lac. West Pt., Je (Sf); Ft. Montgomery, May (Ds); **LI**: Yaphank, Je-J1 (Eng, Ds); Central Pk., Je (Shoe); Wyandanch, J1 (Ds).

## SUBFAMILY CHLAMYDINAE

CHLAMYS Knoch <sup>55a</sup>

- 15297 **C. gibbosa** Fab. Pike (Yg); E. Aurora, Je (Dnd); Windsor, May, Je (Not); Corinth, Springville, Je (Yg); Poughkeepsie, May (Yg); Ulster Co, Sep (Shoe); West Pt. (Robn); White Plains, May (Sq); Mosholu (Sf); **SI**, Ap-Je (L&D); **LI**: (Eng); Wyandanch, Ap (Schott); Calverton, Sep (Ds). On blackberry, the larva living within a case.
- 15299 **C. cribripennis** Lec. **LI**: Yaphank, May (Eng), Jl (Sf); Pinelawn, Je; Promised Land, Sep; Central Pk., May (Shoe); Amagansett, Sep (Ds).

## EXEMA Lacordaire

- 15306 **E. conspersa** Mann. Westfield, May (Not); Ithaca, Jl (Dt).
- 15306a **E. conspersa** var. **dispar** Lac. Honeoye Falls, Je (Ds); Windsor, May, Je (Not); Greenwood L.; West Pt. (Robn); Nyack, Je (Ds); Ramapo, Je (Ds); Suffern (Sf); **SI**: Tottenville, Oct, Clove Val., May (Ds); **LI**: Manorville, Sep (Eng); Wading R., May-Je (Ds).

## SUBFAMILY CRYPTOCEPHALINAE

## PACHYBRACHYS Redtenbacher

- 15312 **P. pubescens** Oliv. Ithaca, May (Ds); West Pt., Je (Ds); Westchester Co, Jl (Ds); **SI**, Je (L&D); **LI**: Central Pk., Je, Massapequa, Jl (Shoe); Wading R., May (Ds, Schott); Huntington, Jl (Schott); Yaphank, Je (Ds).
- 15357 **P. pectoralis** Melsh. Greenwood L., Jl (Sf); **SI**, Jl (Lg, Fall); **LI**: Huntington, Sep (Schott).
- 15358 **P. sobrinus** Hald. E. Aurora, Je (Dnd); **SI** (Lg, Fall); **LI**: Rockaway Beach, Massapequa, Je (Shoe).
- 15369 **P. femoratus** Oliv. Slide Mt., Jl (Shoe); **SI** (Lg); **LI**: Coney I. (Fall-US); Massapequa, Jl, Yaphank, Aug (Shoe).
- 15369a **P. femoratus** var. **aquilonis** Fall. "NY" (Fall-US).
- 15371 **P. subfasciatus** Lec. Slide Mt., Jl (Shoe); Peekskill, May (Sherm); West Pt., May (Robn), Je (Ds); **SI**, *Soltau* (Fall-US); **LI**: Pinelawn, Je (Eng); Central Pk., May (Ds, Shoe); Massapequa, Je (Ds); Yaphank, May (Shoe); Wyandanch, Jl, Wading R., May (Ds, Schott).
- 15382 **P. confederatus** Fall. "NY" (Fall).
- 15393 **P. peccans** Suffr. Buffalo (Fall,Lg); **LI**: Cold Sp. Harb. (Brb).
- 15407 **P. atomarius** Melsh. Protection, Jl (Dnd); W. Hebron, Je (Fall,Lg); West Pt. (Robn); Mt. Vernon (Sherm); Van Cort. Pk., Je (Sf); **SI** (Lg).
- 15409 **P. obfuscatus** Fall. "NY" (Fall).
- 15412b **P. cephalicus** Fall var. **parvus** Fall. **LI** (Lg).
- 15413 **P. roboris** Fall. Buffalo (Fall); Ft. Montgomery, Je (Schott).
- 15415 **P. relictus** Fall. "NY" (Lg); **LI**: Cold Sp. Harb. (Brb).

<sup>55a</sup> Jacobsen in 1924 changed this name, alleged to be preoccupied, to *Bolochesis*.

- 15432 *P. tridens* Melsh. Western NY (Dnd); Oliverea, Je (Shoe); Debruce, JI (Shoe); West Pt. (Robn); Bronx Pk. (Sf); **SI**, Je (Lg, Ds); **LI**: (US); Brooklyn, May (Shoe). On poison ivy (L&D).
- 15433 *P. obsoletus* Suffr. Buffalo (Am. Ent. Soc. Coll., Fall); Bluff Pt. (Csy, Fall); **SI**, JI, *Shoe* (Sf); **LI**: Cold Sp. Harb., JI (Sherm, Fall); Brooklyn, JI (Shoe); Wyandanch, JI (Schott).
- 15440 *P. bivittatus* Say. Keene Val., JI (Yg); Windsor, May, Je (Not); Ithaca, Je, Aug (Dt).
- 15451 *P. othonus* Say. Protection, JI (Dnd); Ithaca, Je (Dt); Elmira (EPV, Fall); W. Hebron, Je (Lg); Nassau, JI (Yg); Peekskill (Sherm in Lg Coll., Fall); West Pt. (Sf); **SI**, JI (L&D); **LI**: Pinelawn, Je (Eng, Ds); Yaphank, May-Je (Ds, Eng), Sep (Shoe); Cold Sp. Harb. (Brb); Wyandanch, JI (Schott); Wading R., May (Ds).
- 15455 *P. carbonarius* Hald. Peekskill, *Sherm* (Fall); Van Cort. Pk., JI, *Zab* (Fall); **SI**, Je (L&D); **LI**: Yaphank, Je (Eng).
- 15458 *P. m-nigrum* Melsh. Keene Val., JI (Yg); Newport, Woodworth's L., JI (Yg); Washington Co, *Lg*; White L., JI, *Zab* (US); **SI**, Lg; **LI**: Cold Sp. Harb. (Brb); Massapequa, JI (Ds, Shoe); Riverhead, JI (Ds).
- 15459 *P. trinotatus* Melsh. Potsdam, JI (Liebeck); Colden, *EPV* (US); Protection, JI (Dnd); Peekskill, *Sherm* (Lg Coll.); **LI**: Yaphank, JI, Amagansett, Aug (Eng); Cold Sp. Harb. (Brb); Central Pk., Je (Shoe); Wyandanch, Sep (Schott).
- 15462 *P. luridus* Fab. Ithaca, Je (Ds); W. Hebron, Je, Aug (Ds, Lg); West Pt. (Robn); Ft. Montgomery, Je (Schott); **SI**, Je (L&D); **LI**: Pinelawn, Je (Eng); Yaphank, May, JI (Ds, Eng); Massapequa, JI, Brooklyn, JI (Shoe); Wyandanch, Je (Schott).
- 15462a *P. luridus* var. *nigrinus* Blatch. **LI**: Brooklyn, Je, Massapequa, JI (Shoe).
- 15470 *P. hepaticus* Melsh. "NY" (Lg).

#### MONACHULUS Leng

- 15472 *M. ater* Fab. Karner, N. Chatham, Je (NYS); Southfields, Aug (Schott); Westchester Co (Ds); West Pt. (Robn); **SI**, south shore, JI (Shoe, Ds); **LI**: Cold Sp. Harb. (Brb).
- 15473 *M. saponatus* Fab. Allegany Pk., JI (Dnd); Karner, JI, Hope, Aug, Nassau, JI, Woodworth's L., JI (NYS); **SI**, JI (Shoe), Je (L&D); **LI**: Brooklyn, JI, Aqueduct, Aug (Shoe).
- 15474 *M. thoracicus* Cr. West Pt. (Robn). Determination queried by Sf, since the species is known only from Fla.

#### CRYPTOCEPHALUS Geoffroy

- 15479 *C. notatus* Fab. Keene Val., JI (Yg); Horicon, Brant L., Aug (Doll); Corinth, Je (Yg); Karner, Je (Yg); Poughkeepsie, May (Yg); White Plains, Aug (Sq); Nyack, Je (Ds); **LI**: Yaphank, May-Je (Eng, Ds); Hempstead Plains, May (Eng); Central Pk., May (Ds, Shoe); Huntington, May (Schott); Wyandanch, JI, Wading R., May (Ds).
- 15479a *C. notatus* var. *quadrinotatus* Say. Western NY (Dnd); Olcott, May-JI, Ithaca, May-Aug (Dt); Wilmington, JI (Shoe); Catskills, JI (Shoe); West Pt. (Robn); White Plains, Je-JI (Sq); **LI**: Woodhaven (Dt); Orient, *Lath* (NYS).

- 15480 *C. quadruplex* Newn. Newport (Yg); Western NY, Je (Dnd); Rock City, Je (Ds); Ithaca, Jl (Eng); W. Danby, May (Ds); Windsor, May, Je (Not); Corinth, Je (Yg); Karner, Je (NYS); West Pt. (Robn); **SI**, Je-Jl (Shoe, Ds); **LI**: Central Pk., May (Shoe).
- 15480a *C. quadruplex* var. *quadriguttulus* Suffr. West Pt., Je (Ds); **SI**, Je (Ds); **LI**: Pinelawn (Eng); Huntington, Je (Schott); Wyandanch, Jl, Wading R., May, south of Smithtown, Je (Ds).
- 15483 *C. guttulatus* Oliv. "NY" (Sf); West Pt. (Robn); **LI**: Central Pk., Je (Shoe).
- 15495 *C. venustus* Fab. Keene Val., Aug (Yg); Cortland, Jl, *Bks* (Yg); Albany, Nassau, Kinderhook, Jl (Yg); West Pt. (Robn); White Plains, Jl (Sq); **SI**, Jl-Aug (Ds); **LI**: Cold Sp. Harb. (Brb); Brooklyn, Jl (Shoe); Wyandanch, May (Schott); Central Pk., Sep, Wading R., Jl (Ds).
- 15495a *C. venustus* var. *cinctipennis* Rand. "NY" (Sf); Woodworth's L., Jl (Yg); **LI**: Fire I., Jl (Ds).
- 15495b *C. venustus* var. *hamatus* Melsh. **SI**, Aug (Ds); **LI**: Babylon (Jn); Cold Sp. Harb. (Brb); Brooklyn, Aqueduct, Jl (Shoe).
- 15495d *C. venustus* var. *simplex* Hald. **SI**, Aug (Ds); **LI**: Yaphank, Jl-Aug (Eng, Shoe); Cold Sp. Harb. (Brb); Central Pk., Je (Shoe); Half Way Hollow Hills, Jl (Ds).
- 15500 *C. calidus* Suffr. White Plains, Je (Schott); **SI**, Jl (L&D); **LI**: Wading R., Jl (Sf), Je (Ds); Cold Sp. Harb., Jl (Brb); Yaphank, Je (Eng).
- 15501 *C. gibbicollis* Hald. **LI**: Massapequa, Je, Yaphank, Aug (Shoe).
- 15503 *C. trivittatus* Oliv. Mosholu, Je (Sf); **LI**: Wyandanch, Jl (Schott); Bayshore, Jl (Ols).
- 15505 *C. incertus* Oliv. **LI**: Yaphank, Aug (Eng, Shoe); Amagansett, Aug (Sf), Sep (Ds).
- 15507 *C. mutabilis* Melsh. Newport (Yg); Pike (Yg); Castile, Sep, *Brad* (Flet); White Plains, Aug (Sq); Ft. Montgomery, Jl (Schott); **SI**, Jl-Aug (Shoe); **LI**: Wading R., Jl, *Ds* (Sf); Central Pk., Je, Yaphank, Aug (Shoe); Huntington, Aug (Schott); Riverhead, Aug (Ds); Pinelawn, Sep (Ds).
- 15515 *C. schreibersi* Suffr. West Pt. (Robn); Bear Mt., Sep (Schott); **LI**: Wyandanch, Aug (Schott, Sf); Central Pk., Aug (Ds).
- 15516 *C. tinctus* Lec. Ft. Montgomery, Sep (Schott); **SI**, Sep (L&D); **LI**: Yaphank, Sep-Oct (Eng, Shoe).
- 15518 *C. striatulus* Lec. "NY" (Sf); **SI**, Je-Jl (L&D).

## DIACHUS LeConte

- 15521 *D. auratus* Fab. Speculator, Aug, Newport, Je (Yg); Horicon, Brant L., Aug (Doll); Mooers, Sep (Not); Schuyler Co, Je (H); Oliverea, Je (Ds, Shoe); Catskills (Pears); West Pt. (Robn); Mosholu (Sf); **SI**, Je-Jl (L&D); **LI**: Wyandanch (Sf); Rockaway Beach, Je (Ds); Brooklyn, Je (Shoe); Central Pk., Aug (Ds).
- 15526 *D. aeruginosus* Lec. Redford, Je (Martin). Described from Colo.
- 15527 *D. catarius* Suffr. Newport, Je, Wells, Jl (Yg); Mt. Whiteface, Jl (Shoe); Corinth, Je (Yg); Oliverea, Je (Shoe); Catskills (Pears).
- 15528 *D. pallidicornis* Suffr. "NY" (Sf); Olcott, Je-Jl (Dt).

## BASSAREUS Haldeman

- 15530 **B. brunnipes** Oliv. var. *clathratus* Melsh. **SI**, Jl (L&D); **LI**: Yaphank, Jl, Wading R., Je, Selden, Aug (Ds). On alder and Clethra.
- 15532 **B. formosus** Melsh. Keene Val., Je, Karner, Jl (Yg); Van Cort. Pk. (Nic); **LI**: Pinelawn, Je (Eng); Babylon (Jn); Massapequa, Je-Jl (Shoe); Wyandanch, Jl, Oakdale, Aug (Schott); Riverhead, Jl (Ds).
- 15532 **B. formosus** var. *sulphuripennis* Melsh. Protection, Jl (Dnd); **LI**: Yaphank, Jl (Eng); Wyandanch, Je (Schott).
- 15534 **B. mammifer** Newn. Newport, Jl (Yg); Horicon, Brant L., Aug (Doll); Erie Co, Je-Jl (Dnd); Ithaca, Je (NYS); West Pt. (Robn); **SI**, Je (L&D); **LI**: Wyandanch, Je (Schott).
- 15534b **B. mammifer** var. *luteipennis* Melsh. "NY" (Dt).
- 15534c **B. mammifer** var. *pretiosus* Melsh. **SI**, Jl (L&D); **LI**: Cold Sp. Harb. (Brb); Yaphank, Aug (Shoe); Jamaica, Jl (Schott).
- 15534d **B. mammifer** var. *sellatus* Suffr. Castile, Sep, *Brad* (Flet); Elka Pk., Aug (Drk); Olivera, Jl (Shoe); Bear Mt., Je (Schott); Karner, Je (NYS); West Pt. (Robn); **LI**: Central Pk., Je (Shoe); Orient Pt., Je, *Lath* (Yg).
- 15536b **B. lituratus** Fab. var. *lativittis* Germ. West Pt. (Robn); White Plains, May-Jl (Sq); Nyack, Je (Ds); **LI**: Bayshore (Ols); Wading R., May (Ds); Yaphank, Je (Ds).
- 15536b **B. lituratus** var. *recurvus* Say. "NY" (Dietz); Olivera, Jl (Shoe); **SI**, Je (Ds); **LI**: Cold Sp. Harb. (Brb); Massapequa, Je (Ds, Shoe); Floral Pk., Je (Schott).

## TRIACHUS LeConte

- 15537 **T. atomus** Suffr. L. Placid, Sep, *Shoe* (Sf); Mosholu (Sf); **LI**: Pinelawn, Je (Ds); Brooklyn, Je (Shoe).
- 15538 **T. cerinus** Lec. **LI**: Rockaway Beach, Je (Sf, Ds); Amagansett (Sf); Cold Sp. Harb. (Brb).

## SUBFAMILY EUMOLPINAE

## CHRYSODINA Baly

- 15544 **C. globosa** Oliv. Windsor, May, Je (Not); Greenwood L. (Sf); West Pt., Jl (Eng); West Pt. (Robn); Ramapo, Ft. Montgomery, May (Ds); **SI**, Je, Aug-Sep (L&D); **LI**: Pinelawn, Je (Eng, Ds); Cold Sp. Harb., Jl (Brb); Massapequa, Jl (Shoe); Huntington, May, Nov (Schott); Amagansett, Sep, Gardiners I., Aug, Wading R., May (Ds).

## NODONOTA Lefevre

- 15545 **N. tristis** Oliv. Olcott, Dec (Dt); Danby, Jl (Dt); Ithaca, Jl, *Ynasa* (Vdyk); Albany (NYS); West Pt. (Robn); **SI**, on south shore, Jl (Ds).
- 15546 **N. clypealis** Horn. Mosholu (Sf); **LI**: Brooklyn, Aug (Shoe).
- 15549 **N. puncticollis** Say. Batavia, Je (Ds); Newport, Pike, Schenectady, Nassau, Albany, Je (NYS); Schoharie, Je (Not); Lagrangeville, Je (NYS); Ramapo, May (Ds); **SI**, May-Jl (Ds); **LI**: Pinelawn, Je (Eng); Bellport, Je (Nic); Cold Sp. Harb., Jl (Brb); Central Pk., Je (Shoe); Wyandanch, Je (Schott); Yaphank, Jl (Ds); Orient, *Lath* (NYS).



## COLASPIS Fabricius

- 15555 **C. brunnea** Fab. Wells, Jl (Yg); Olcott, Je-Jl (Dt); Clyde, Jl, *Bish* (Yg); Fredonia (Felt); Ithaca, Jl-Aug (Dt); Peekskill (Sherm); West Pt. (Robn); White Plains, Je-Aug, *Sq* (Fall); **SI**, Aug (Eng); **LI**: Rockaway Beach, Je (Eng); Brooklyn, Jl-Aug (Shoe); Gardiners I., Aug, Orient, Sep, Amagansett, Aug (Ds).
- 15555b **C. brunnea** var. *flavida* Say. "NY" (Dietz); **SI**, Jl, Aug (L&D); **LI**: Flatbush, Jl (Schott).
- 15559 **C. favosa** Say. **SI**, Je (L&D); **LI**: Brooklyn, Jl (Shoe); Orient, Central Pk., Jl (Ds). On *Myrica carolinensis* (Sf).

## RHADDOPTERUS Lefevre

- 15563 **R. picipes** Oliv. Elizabethtown, Jl, Newport, Je (Yg); E. Aurora, Jl-Aug (Dnd); Ithaca, Je (Felt); Schoharie, Je (Not); Kenwood, Jl (Yg); Poughkeepsie, Aug (Lath); West Pt. (Robn); **SI**: Aug, Je (Eng, Ds); Watchogue, Aug (Ds); **LI**: Gardiners I., Aug (Ds); Aqueduct, Je, Brooklyn, May (Shoe); Jamaica (Schott); Orient, *Lath* (NYS).

## GRAPHOPS LeConte

- 15567 **G. pubescens** Melsh. Newport, May, Speculator, Aug (Yg); E. Aurora, Je (Dnd); Ithaca, Sep (Dt); Phoenicia, Aug (EPV); Clinton Hgts., Mar (Yg); Nassau, Jl (Yg); West Pt. (Robn); Van Cort. Pk., Sep (Yg); **SI** (L&D); **LI**: Long Beach, May (Eng); Brooklyn, Rockaway Beach, May (Shoe); Huntington, May (Schott); Flatbush (Ds); Yaphank, May (Ds).
- 15568 **G. curtipennis** Melsh. **LI**: Pinelawn, Yaphank, Je (Eng); Wyandanch, Jl, Montauk, Sep (Ds).
- 15569 **G. marcessitus** Cr. Rock City, Je (Ds); Windsor, May, Je (Not); Schuylar Co, Je (H); West Pt. (Robn); **SI**, May (L&D); **LI**: Amagansett, Aug (Eng); Rockaway Beach, May-Je (Shoe); Flatbush, Aug (Zab); south of Smithtown, Je (Ds); Pinelawn, Je (Ds).

## XANTHONIA Baly

- 15573 **X. decemnotata** Say. Newport, May, Elizabethtown, Aug (Yg); Olcott, May-Aug (Dt); Pike, Sep (Yg); Batavia, Je (Ds); E. Aurora, May-Jl (Dnd); Rock City, May (Ds); Westfield, May (Not); Schuylar Co, Je (H); Ithaca, Sep (Dt); Buttermilk Cr., May, *Palm* (Yg); Schoharie, Je (Not); Windsor, May, Je (Not); Karner, May (NYS); Clinton Hgts., Ap (NYS); Poughkeepsie, Jl (NYS); Oliveria, Je (Shoe); Nyack, May (Schott); Ramapo, May (Ds); Pine I., Je (Ds); **SI** (L&D); **LI**: Central Pk., Ap (Eng); Yaphank, May, Oct (Ds, Eng); Manorville, Sep, Pinelawn, Je (Eng); Wyandanch, Je (Schott); Massapequa, Wading R., May (Ds).
- 15574 **X. villosula** Melsh. Newport, Je, Pike, Sep (NYS); Olcott, Jl (Dt); Letchworth Pk., Jl (Yg); Batavia, Je (Ds); E. Aurora, Jl (Dnd); Genesee Co, Je (Ds); Ithaca, Jl-Aug, *Yuasa* (Vdyk, Dt); Schoharie, Je (Not); West Pt., Jl (Eng); **SI**: Clove Val., Jl (Ds); **LI**: Yaphank, Je-Jl (Eng, Ds); Promised Land, Sep (Eng); Cold Sp. Harb., Jl (Brb); Brooklyn, Je, Aqueduct, Jl (Shoe); Central Pk., Jl (Schott); Selden, Aug, Wyandanch, Jl (Ds).

**FIDIA** Baly

- 15577 **F. viticida** Walsh. Buffalo, Aug, Westfield, Je (NYS); Fredonia, Ripley, Jl (Felt); Albany, Jl (Lint); Highland, Jl (NYS); **SI**, Jl (L&D); **LI**: Je (Eng); Brooklyn, Je, Aqueduct, Jl (Shoe).  
 15578 **F. longipes** Melsh. West Pt. (Robn).

**METACHROMA** LeConte

- 15593 **M. laevicollis** Cr. **LI**: Central Pk., Jl (Sf, Ds); Coney I. (Linell).  
 15598 **M. pallidum** Say. Karner, Jl, *Hoffman* (NYS); **LI**: Central Pk., Jl (Sf).  
 15598a **M. pallidum** var. **lateralis** Cr. **LI**: Central Pk., Jl (Sf).  
 15601 **M. quercatum** Fab. **LI**: Wyandanch (Sf); Yaphank, Je (Ds).

**ADOXUS** Kirby

- 15604b **A. obscurus** L. var. **villosulus** Schrank. Mt. Whiteface, Jl (Shoe); Old Forge, Wells, Augur Flats, Jl (NYS); L. Placid, Jl, Sep (Shoe-NYS); Wanakena, Aug (Drk); Cranberry L., Jl-Aug (Drk); Horicon, Brant L., Aug (Doll); West Pt. (Robn); **SI** (L&D); **LI**: Rockaway Beach, Je (Shoe, Eng).

**TYMNES** Chapuis

- 15605 **T. tricolor** Fab. Ithaca, Aug (Dt); Karner, Jl (Yg); West Pt. (Robn); Nyack, Pine I., Je (Ds); **SI**: Richmond, Je (Ds); **LI**: Flatbush, Yaphank, Je, Amagansett, Aug, Orient, Je (Eng); Jamaica, Je (Yg); Cold Sp. Harb., Jl (Brb); Brooklyn, Je (Shoe); Central Pk., Je (Shoe); Wyandanch, Long Neck, Je (Schott).  
 15607 **T. metasternalis** Cr. "NY" (Dietz); **SI**, on *Crataegus* (L&D).

**GLYPTOSCELIS** LeConte

- 15613 **G. pubescens** Fab. Pike (NYS); Erie Co, May-Je (Dnd); Ithaca, May, Aug (Dt); Cooperstown, May (Yg); Hudson, Je (Eng); West Pt., Jl (Ds); **SI**, Je (L&D); **LI**: Massapequa, May (Shoe); Bayshore (Ols); Wading R., May (Schott); Wyandanch, Jl, Central Pk., Yaphank, May (Ds).  
 15614 **G. barbata** Say. Pine I., Je (Ds); Ramapo (Sf); **LI**: Massapequa, Jl (Shoe); Greenport, Aug (Ds, Eng).

**PARIA** LeConte

- 15626 **P. canella** Fab. "NY" (Dietz); Erie Co, Je-Jl (Dnd); West Pt. (Robn); **SI**, Mar-Aug (L&D).  
 15626a **P. canella** var. **aterrima** Oliv. Gloversville, Ap, *Alex* (Yg); Buffalo, Aug (NYS); Chautauqua Co, Jl (Yg); Ithaca, May-Sep (Dt); Salem, Aug (NYS); Poughkeepsie, Je (Yg); **SI**, Jl (Ds); **LI**: Promised Land, Sep (Eng); Gardiners I., Jl (Ds); Orient, Jl, *Lath* (Ds).  
 15626b **P. canella** var. **gilvipes** Horn. Axton, Je (MacG); Onondaga Co, May-Je, Schuyler Co, May-Je (H); Rock City, Je (Ds); Ithaca, May-Aug (Dt); Olivera, Je (Shoe); **SI**, Jl (Ds); **LI**: Aqueduct, Mar (Shoe); Brooklyn, May (Shoe).

- 15626c *P. canella* var. *pumila* Lec. Mooers, Sep (Not); Pike, Mar (NYS); Ithaca, Jl, Sep (Dt); Windsor, May, Je (Not); Poughkeepsie, Je (NYS); **SI** (L&D); **LI**: Brooklyn, May (Shoe).
- 15626d *P. canella* var. *quadriguttata* Lec. Onondaga and Schuyler Counties, May-Je, flying (H); Castile, *Brad* (Flet); Olcott, Jl, Ithaca, Je (Dt); Mooers, Sep (Not); Ringwood, Jl, *Ynasa* (Vdyk); Windsor, Je (Not); **LI**: Orient, *Lath* (NYS).
- 15626e *P. canella* var. *quadrinotata* Say. Newport, May (Yg); Conesus L., Je (Ds); Pike, Jl (NYS); Rock City, Je (Ds); Ithaca, May-Aug (Dt); McLean, May (Ds); Albany, May (Yg); Slide Mt., Je (Shoe); Bangall, Sep (Eng); Pine I., Je (Ds); **SI**: Tottenville, Je (Ds); **LI**: Bellmore, Sep (Eng); Rockaway Beach, May (Shoe).
- 15626f *P. canella* var. *sellata* Horn. Cranberry Cr., Je, Pike, Jl (NYS); Windsor, May, Je (Not); **SI**, Jl (Ds); **LI**: Pinelawn, Je (Eng); Cold Sp. Harb., Jl (Brb); Wading R., May (Ds).
- 15626g *P. canella* var. *sexnotata* Say. Letchworth Pk., Sep (Dnd); Oliverea, Je (Shoe); Karner, May (NYS).
- 15626h *P. canella* var. *thoracica* Melsh. Speculator, Je (NYS); Northampton, Je (Yg); Ithaca, Je (Dt); Schenectady, Je (NYS); Albany, Je (NYS); Ulster Co (Nic); **SI** (L&D).
- *P. canella* var. *vittata* Horn. Schuyler Co, Onondaga Co, May-Je (H); Ithaca, Je (Dt); Windsor, May, Je (Not); **SI** (L&D); **LI**: Brooklyn, Jl (Shoe); Eastern Parkway, Brooklyn, Jl (Martin); Yaphank, Ap, Long Beach, May (Eng); Rockaway Beach, May (Shoe).
- *P. scutellaris* Not. Windsor, Je (Not).

## CHRYSOCHUS Redtenbacher

- 15627 *C. auratus* Fab. Wilmington, Aug, Long L. (Ds); Horicon, Aug (Doll); Mooers, Sep (Not); Onondaga Co, Oct (H); Olcott (Dt); Erie Co, Je-Jl (Dnd); Castile, *Brad* (Flet); Ithaca, Jl-Sep, *Ynasa* (Vdyk, Dt); Callicoon, Jl (Ds); West Pt., Sep (Ds); White Plains, Jl (Sq); **SI**, Je-Jl (Ds); **LI**: Yaphank, Jl, Sep (Eng, Ds); Wading R., Aug (Sf, Ds); Brooklyn, Jl-Aug (Shoe); Orient, *Lath* (NYS).

## SUBFAMILY CHRYSEMELINAE

## PRASOCURIS Latreille

- 15636 *P. vittata* Oliv. Ogdensburg, Jl (Yg); Blue Mt., Jl, Newport, Je, Cranberry L., Jl (Drk); Deer R., May, Pike, Mar (Yg); Castile, *Brad* (Flet); E. Aurora, Je, Oct (Dnd); Redford, Jl (Martin); Madison Co, May, herbage (H); Buffalo; Debruce, Jl (Shoe); Avon, Geneva, May (Cls); Ithaca, Je-Aug, McLean, May (Dt); Debruce, Jl (Shoe); Pine I., May (Schott); West Pt., May (Robn); Ft. Montgomery, Je (Schott); White Plains, May-Jl (Sq); **SI**, Je (L&D).

## LABIDOMERA Chevrolat

- 15639 *L. clivicollis* Kby. Newport, Aug (Yg); Severance, Jl (Bks); New Russia, Je (Yg); Ogdensburg, Jl (Yg); Mooers, Sep (Not); Olcott, Je-Jl (Dt); Avon, May, Geneva, Jl-Aug (Cls); E. Aurora, May-Aug (Dnd); Castile, *Brad* (Flet); Rock City, Je (Ds); Ithaca, Ap, Je-Sep

(Dt, Bish); McLean, May (Ds); Albany, Je (Yg); Waterford Reservoir, Aug (Leon); Thomson, May (Leon); Hudson Falls, Sep (Yg); Hudson, Aug (Eng); Olivera, Je (Shoe); Debruce, Jl (Shoe); Sullivan Co (Ds); West Pt. (Robn); White Plains, May-Aug (Sq); **SI**, May-Aug (L&D); **LI**: Yaphank, May, Jamaica, Jl, Greenport, Aug (Eng); Rockaway, May, Brooklyn, Aug (Shoe); Amagansett, Je (Sf); Orient, Jl, *Lath*, Maspeth, Aug (Ds).

## LEPTINOTARSA Stål

- 15648 **L. decemlineata** Say. COLORADO POTATO BEETLE. Big Moose, Jl, Old Forge, Je (Yg); Cranberry L., Jl, Dec (Drk); Hamilton Co (Ds); Oswego, Je (Bks); Lockport, Sep (Yg); Avon (Cls); Castile, *Brad* (Flet); E. Aurora (Dnd); Rock City, May (Ds); Trenton Falls, Je (Bks); West Pt. (Robn); White Plains, all summer (Sq); **SI** (Ds); **LI**: Long Beach, Flatbush, May (Eng); Brooklyn, Rockaway Beach, May (Shoe); Orient, Je (Ds).

## ZYGOGRAMMA Chevrolat

- 15655 **Z. suturalis** Fab. Onondaga Co, Oct (H); Westfield, May (Not); Castile, *Brad* (Flet); Avon, Ap, Geneva, May, Aug (Cls); West Pt. (Robn); White Plains, May-Sep (Sq); **SI**, Aug (Ds); **LI**: Amagansett, Aug, Montauk Pt., May, Yaphank, May (Eng); Aqueduct, Jl, Sep (Shoe, Ds).
- 15655a **Z. suturalis** var. *casta* Rogers. White Plains, Je (Sq); **SI** (L&D).

## CALLIGRAPHA Erichson

- 15664 **C. lunata** Fab. Ilion, May (Yg); Schuylerville, Je (Yg); Ithaca, Ap (Bish); Scotia, Je (Yg); Karner, Aug (Yg); N. Chatham, Je (Yg); Poughkeepsie, Jl (Leon); Southfields, Aug (Schott); West Pt. (Robn); Mosholu, Jl (Yg); White Plains, Jl-Aug (Sq); **SI** (L&D); **LI**: Amagansett, Sep, Long Beach, May (Eng); Orient, Je, *Lath* (NYS); Rockaway Beach, May (Shoe); Montauk, Fire I., Promised Land, Sep, Wading R., Je (Ds).
- 15665 **C. similis** Rogers. Oswego, Jl (Bks); Olcott, Je-Jl (Dt); E. Aurora, Je-Jl (Dnd); Canandaigua, Jl (Felt); Westfield, May (Not); Ithaca, Jl, Sep (Dt); Windsor, Je (Not); Albany, Jl (Bks); Windham, Oct (Dt); Pine L., May (Schott); Callicoon, Jl (Ds); West Pt. (Robn); White Plains, May-Jl (Sq); **SI**, May-Aug (L&D); **LI**: Jamaica, Jl (Eng); Rockaway Beach, May, Aqueduct, Jl (Shoe); Orient, *Lath* (NYS); Flushing, Wading R., Aug (Ds); Brooklyn (Dt).
- 15669 **C. elegans** Oliv. Wells, Jl, Newport, May (Yg); Clintonville, Ap (Yg); N. Pulaski, L. Ontario, Je (Ds); Williamsville, Je (Dnd); Ithaca, Ap-Sep (Dt, Vdyk); Windsor, Je (Not); Watervliet Reservoir, Aug (Leon); Hudson, Jl (Eng); Slide Mt., Jl (Shoe); West Pt. (Robn); Pine L., Je, Ramapo, Ap (Ds); White Plains (Sq, Bno); **SI**, Ap-Sep (Ds); **LI**: Long Beach, Rockaway Beach, May (Eng); North Beach, Dec, Queens, Je (Schott); Aqueduct, Jl (Shoe); Flushing, Wading R., Aug (Ds); Orient, *Lath* (NYS).
- 15671 **C. scalaris** Lec. Adirondack Lodge, Jl (Claas); Newport, May-Je, Keene Val., Je (Yg); Wilmington, Jl (Shoe); Ogdensburg (Yg); Clinton, May (Yg); Lowville, Jl (Ds); Westfield, May (Not); Oswego, Je

(Bks); Avon, Je, Geneva, Oct (Cls); Ithaca, Je, *Yuasa* (Vdyk); Olivera, Je (Ds); West Pt. (Robn); White Plains, Jl-Aug (Sq); **SI**, Oct (L&D); **LI**: Brooklyn, May, Oct (Shoe); Oyster Bay, Aug (Ds).

15672 **C. rhoda** Knab. E. Aurora (Dnd).

15673 **C. rowena** Knab. Newport, Je (Yg); Wilmington, Je (Hoffman); Mt. Whiteface, Jl (Ds); E. Aurora, Je-Jl (Dnd); Avon, Geneva, Je (Cls); Ithaca, May, Aug (Dt); **LI**: Yaphank, May (Eng).

15674 **C. philadelphica** L. Newport, May-Je, Wells, Aug (Yg); Woodworth's L., Jl (Leon); Northampton, Je (Yg); Plattsburg, Jl (Shoe); Pike, Je (NYS); Genesee Co, Je (Ds); McLean, May (Dt); Schoharie, Je (Not); Nassau, Je (Yg); Voorheesville, Je (Bish); Thomson, May (Leon); N. Chatham, Je (Yg); White Plains, Je (Sq); **LI**: Bellport, Je-Aug (Nic); Bayshore, Jl (Ols).

15675 **C. amelia** Knab. Ellis, Je; **SI** (Knab).

15677 **C. bigsbyana** Kby. L. Placid, Sep (Eng); Keene Val., Jl (Yg); Long L., Aug (Yg); Severance, Jl, *Baker* (Yg); Newport (Yg); Mooers, Sep (Not); Onondaga Co, May, herbage (H); Port Byron, Je (Dt); Olcott, Oct (Dt); western NY, Je-Aug (Dnd); Westfield, Aug (Yg); Castile, *Brad* (Flet); Ithaca, May, Jl (Dt); Groton, Je (Ds); Freeville, Jl (Chapman); Windsor, Je (Not); Schoharie, Je (Not); Callicoon, Jl (Ds); Olivera, Je-Jl (Ds, Shoe); Albany, May, Karner, Sep (Yg); Catskills, Jl (Eng); **LI**: (Eng); Bayshore, Jl (Ols).

— **C. apicalis** Not. Mooers, Clinton Co, Sep (Not).

#### CHRYSEMELA Linnaeus

15692 **C. subopaca** Rogers. This is reported by Rogers as occurring in NY, but apparently this report is doubtful, as no specimens seem to have been taken by any one else.

#### PLAGIODERA Redtenbacher

15693 **P. versicolora** Laich. Windsor, Je (Not); NY Bot. Gardens, Jl (Hoffman); Van Cort. Pk., May (Nic); **SI**: Bulls Head, Sep-Oct, Dec (Ds); **LI**: Flushing, Jan (Bell); North Beach, Je (Schott). On willow (Sf).

#### PHAEDON Latreille

15699 **P. viridis** Melsh. Ilion (NYS); Newport, Je, *Yg* (Hoffman); Barneveld, Aug (Hoffman); Olcott, Oct (Dt); Ithaca, May-Aug (Dt); Catskills (Pears); DeBruce, Jl (Shoe).

#### GASTROIDEA Hope

15701 **G. polygona** L. Very common in the State (Sf). Batavia, Je (Ds); Ithaca, Ap, Jl-Sep, *Yuasa* (Vdyk, Dt); E. Aurora, May, Jl (Dnd); Westfield, May (Not); Castile, *Brad* (Flet); Avon, Ap-May (Cls); Windsor, Je (Not); Schoharie, Je (Not); Kenwood, Jl (Yg); Albany, *Fernow* (Lint); Olivera, Je (Ds); West Pt. (Robn); **SI**, Ap-Aug (Ds); **LI**: Rockaway Beach, Je, Long Beach (Eng); Wading R., May, Flatbush, Ap (Schott); Brooklyn, Ap, Je (Shoe).

15703 **G. cyanea** Melsh. **SI**, May-Je (Ds). On Rumex.



## LINA Redtenbacher

- 15708 *L. interrupta* Fab. Keene Val., JI (Yg); Wilmington, JI (Shoe); Gloversville, May, *Alex* (Yg); Castile, *Brad* (Flet); E. Aurora, May, Protection, Je (Dnd); Avon, May, Geneva, Je, Lodi, JI (Cls); Ithaca, Mar-Aug, *Bish*, *Yuasa* (div.); Corinth, Je, Karner, May (Yg); Pine I., Je (Sf); West Pt., Je (Ds); Ft. Montgomery, May (Schott); Southfields, May (Schott); **SI**: Je (Ds); Silver L. (Sf); **LI**: Wyandanch, Je (Sf); Rockaway Beach, May (Shoe, Schott); Flushing (Bell). Often in collections as *lapponica* L., which is European (Sf).
- 15709 *L. tremulae* Fab. Axton, Je (M&H); Newport, Je, L. Clear, JI (Yg); Mt. McIntyre, JI, *Leon* (Yg); Horicon, Aug (Doll); N. Pulaski, L. Ontario, Je (Ds); Mt. Whiteface, JI (Shoe); Conesus L., Je (Ds); Elba, Je, *Wild* (Dnd); Ithaca, JI (Dt); Ringwood, JI, *Yuasa* (Vdyk); Windsor, Je (Not); West Pt., JI (Ds); **SI**, JI (L&D); **LI**: Rockaway Beach, Je (div.); Long Beach, Je (Eng, Schott); Flatbush, JI (Schott).
- 15710 *L. scripta* Fab. Ausable R. (Lint); Liverpool, May (Lint); Northampton, Je (Yg); Cranberry L., *Htly* (H); Ithaca, May-Je (Dt); Albany, Je (Yg); West Pt. (Robn); **SI**, Je, Aug (Ds); **LI**: Wyandanch, Je (Sf); Long Beach, Je (Eng); Flatbush, May (Eng).
- 15711 *L. obsoleta* Rog. West Pt., Je (div.); Ramapo, Je (Ds).

## PHYTODECTA Kirby

- *P. americana* Sf. Axton, Je (M&H); Keene Val., Je (Not); Mt. Whiteface, JI (Shoe); Cranberry L., *Htly* (H); Windsor, Je (Not); Olivera, Je (Shoe); **LI**: Rockaway Beach, May (Schott).
- *P. notmani* Sf. Keene Val., Je (Not).

## PHYLLODECTA Kirby

- 15718 *P. americana* Sf. Wilmington, JI (Shoe); Jay, JI (Britton); Northampton, Je (Yg); Schuyler Co, Je (H); Ithaca, Aug, *Yuasa* (Vdyk); Catskills (Pears); Olivera, Je, Sep (Ds, Shoe); Callicoon, Sep (Ds); Schoharie, Je (Not); Windsor, Je (Not); West Pt., as *vulgatissima* (Robn). Wrongly identified as *vitellinae* or *vulgatissima*.

## SUBFAMILY GALERUCINAE

## TRIRHABDA LeConte

- 15724 *T. tomentosa* L. **LI**: Rockaway Beach, JI (Shoe); Glen I. (Sf); Orient, JI, Montauk, Aug (Ds).
- 15725 ?*T. brevicollis* Lec. Avon, JI (Cls).
- 15726 *T. virgata* Lec. L. Placid, Sep (Eng); Olcott, JI (Dt); Wilmington, Aug (Ds); Avon, JI (Cls); Ithaca, Aug-Sep (Dt); Callicoon, JI, E. Jewett, Aug, Olivera, Sep (Ds); White Plains, JI (Sq); **SI**, Sep (Ds); **LI**: Rockaway Beach, Aug-Sep (Shoe); Flushing, Aug (Ds).
- 15727 *T. canadensis* Kby. Mt. Marcy, JI, Clyde, JI (Yg); Wilmington, JI-Aug (Shoe, Ds); Olcott, JI (Dt); Akron, Je (Dnd); L. George, Je (Shoe); Albany, Battle, Poughkeepsie, JI (NYS); **SI**, Je (Ds); **LI**: Brooklyn, Aug (Shoe); Forest Pk., JI (Martin); Rockaway Beach, JI (Shoe); Jamaica, JI (Yg); Wading R., Aug, Yaphank, JI, Montauk, Sep (Ds).

## GALERUCELLA Crotch

- 15744 *G. americana* Fab. Gloversville, Jl (Yg); E. Aurora, Jl (Dnd); Windsor, Je (Not); Nassau, Poughkeepsie, Jl (Yg); Ulster Co (Nic); West Pt., Jl (Eng); White Plains, May, Aug (Sq); **SI**, Je-Oct (L&D); **LI**: Brooklyn, Aug (Shoe).
- 15744 *G. cribrata* Lec. Long L. (Ds); Windsor, Je (Not); Nyack, Je (Ds); West Pt., Jl (Eng); White Plains, May-Aug (Sq); **SI**, Jl (Ds); **LI**: Central Pk., Ap (Eng); Cold Sp. Harb., Jl (Brb); Wyandanch, Aug, Little Neck, Dec, Huntington, Aug, Jamaica (Schott); Wading R., Jl (Ds).
- 15745 *G. sexvittata* Lec. Horicon (Doll); Ithaca, Je (Dt); Windsor, Je (Not).
- 15746 *G. cavicollis* Lec. Plattsburg, Jl (Ds); N. Elba, Jl (Shoe); Cranberry L., Jl (Drk); N. Pulaski, L. Ontario, Je (Ds); Buffalo; Portage, Je (Ds); Wyoming Co, Je (Ds); Rock City, Je (Ds); Ithaca, Je (Ds, Yuasa); Windsor, Je (Not); Corinth, Je (Yg); Schoharie, Je (Not); Slide Mt., Je-Jl (Shoe, Ds); E. Jewett, Aug, Olivera, Je (Ds); West Pt. (Robn); White Plains (Sq); **SI**, Je (L&D); **LI**: Yaphank, Jl (Sf).
- 15747 *G. rufosanguinea* Say. Keene Val., Aug, Newport, May (Yg); Batavia, Je (Ds); Peekskill, May 21 (Fall, Frost); West Pt. (Robn); Mosholu (Sf); **SI**, Ap, Je (Ds); **LI**: Wyandanch, Je (Sf); Rockaway Beach, May (Shoe).
- *G. kalmiae* Fall. L. Clear, Je 6 (Yg); L. Placid, Sep (Eng); Saranac L., Sep (Shoe); Albany, May 6 (Yg); **LI**: Yaphank, May, Jl (Sf); Rockaway Beach, May (Shoe).
- *G. spiraeae* Fall. Saranac L., Je, Speculator, Je, Wells, Jl 23, Corinth, May 31, Nassau, Je 23 (Yg); Debruce, Jl (Shoe); Olivera, Je, Sep (Ds); Slide Mt., Je (Ds); **LI**: Jl (Eng).
- 15749 *G. notulata* Fab. Cranberry L., Aug (Drk); Binghamton (Franck); West Pt., Je (Sf); **SI** (L&D); **LI**: Rockaway Beach, May (Shoe).
- 15750 *G. notata* Fab. Letchworth Pk., Sep (Dnd); Westchester Co, Sep (Ds); Mosholu (Sf); Bronx Pk. (Sf); **SI**, Jl (Ds); **LI**: Aqueduct, Sep (Shoe); Wyandanch, Sep (Schott); Wading R., Aug (Sf, Ds); Cold Sp. Harb., Sep (Chitt).
- 15751 *G. nymphaeae* L. Saranac L., Sep (Shoe, Ndm); Bolton (Eng); Pike, Jl (Ndm); Ithaca, Jl (Dt); Kingston, Jl (Eng); West Pt. (Robn); White Plains, Jl-Oct (Sq); Nyack, Nov (Schott); Van Cort. Pk., May (Sf); **SI**, May-Je, Aug (Ds); **LI**: Flatbush, Jl (Eng); Rockaway Beach, Je (Ds, Shoe); Wyandanch, L. Ronkonkoma, May (Schott); Wading R., Je, Flushing, Aug (Ds).
- 15752 *G. tuberculata* Say. Keene Val., Aug 3 (NYS); Newport, May 23 (Yg); E. Aurora, Jl (Dnd); Westfield, May (Not); Castile, *Brad* (Flet); Windsor, Je (Not); Debruce, Jl (Shoe).
- 15753 *G. decora* Say. Keene Val., Sep (Eng); Mt. Marcy, Je, *Felt* (Yg); Cranberry L., Jl-Aug, Oct, *Htly* (H, Drk); Saranac L., Je (NYS); Cranberry Cr., Je (Yg); Mt. Whiteface, Jl (Shoe, Ds); Mooers, Sep (Not); Allegany Pk., Jl (Dnd); Ithaca, May-Jl (Dt); Windsor, Je (Not); Schoharie, Je (Not); Karner, May (NYS); Debruce, Jl (Shoe); Southfields, Aug (Schott); Olivera, Je (Shoe); White Plains, Sep (Sq); **LI**: Rockaway Beach, Je (Schott).

- 15754 *G. luteola* Mull. (*xanthomelaena* Schrank). ELM LEAF-BEETLE. This common species is undoubtedly generally distributed almost everywhere in the State, having been recorded from about seventy different localities (SI). Elm. The name *luteola* has priority.
- *G. vaccinii* Fall. Wells, Jl 18 (Yg); Juanita I., L. George, Sep 13, *Leon* (NYS).
- *G. alni* Fall. Northville, Jl (NYS).

## MONOXIA LeConte

- 15755 *M. puncticollis* Say. **SI**, Je-Aug, Nov (Ds); **LI**: Promised Land, Sep, Long Beach, Je (Eng); Rockaway Beach, Je, Aug (div.); Cold Sp. Harb., Je (Brb); Central Pk., Je, Aqueduct, Jl (Shoe); Jamaica (Schott); Wyandanch, Jl (Ds, Schott); Orient, Massapequa, Jl (Ds).

## DIABROTICA Chevrolat

- 15769 *D. duodecimpunctata* Fab. TWELVE-SPOTTED CUCUMBER BEETLE. Axton, Je (M&H); Newport, Sep (Yg); Wells, Jl (Yg); Oswego, Sep, *Bks* (Yg); western NY, Jl-Sep (Dnd); Olcott (Dt); Perry, Aug, *Hawley* (Vdyk); Castile, *Brad* (Flet); Geneva, Aug-Sep (Cls); Onondaga Co, Oct, on herbage (H); Westfield, Jl (Yg); Ithaca, Je-Nov, *Yuasa* (Vdyk, Dt); Albany Co, May (Yg); Catskills, Jl (Eng); Olivera, Sep (Ds); West Pt. (Robn); White Plains, Aug-Sep (Sq); **SI**, Aug-Dec (Ds); **LI**: Rockaway Beach, Je (Eng); Brooklyn, Je, Aug (Shoe); Orient, *Lath* (NYS); Huntington (Schott).
- 15777 *D. atripennis* Say. Gloversville, Sep, *Alex* (Yg); Olcott, Je-Jl (Dt); Callicoon, Jl (Ds).
- 15782 *D. vittata* Fab. STRIPED CUCUMBER BEETLE. Western NY, Je-Aug (Dnd); Lowville, (Ds); Schuyler Co, Onondaga Co, May-Je, on herbage (H); Ithaca, Ap-Sep (Dt, Ds); Windsor, Je (Not); Schoharie, Je (Not); West Pt. (Robn); White Plains, May-Jl (Sq); **SI**, Ap, Je, Aug (Ds); **LI**: Cold Sp. Harb., Sep (Eng); Rockaway Beach, Je (Eng); Creedmoor, May (Schott); Brooklyn, May (Shoe); Yaphank, Jl, Central Pk., May, Sands Pt., Oct (Ds); Orient, *Lath* (NYS); Pine-lawn, Sep (Ds).

## PHYLLOBROTICA Redtenbacher

- 15787 *P. vittata* Horn. "NY" (Dietz); Ithaca, Jl-Aug, *Yuasa* (Vdyk).
- 15788 *P. decorata* Say. Mt. Whiteface, Jl (Shoe); Speculator, Je (Yg); Cranberry L., Jl (Drk); W. Winfield, Je, *Leon* (Yg); E. Aurora, Je (Dnd); Ithaca, Je-Jl (Dt, Hoffman); **LI** (Eng).
- 15792 *P. discoidea* Fab. Cranberry L., Jl (Drk); Stony Pt., Je (Ds); **SI**, Je (Ds); **LI**: Brooklyn, Aqueduct, Jl (Shoe).
- 15794 *P. limbata* Fab. Newport, Je, Wells, Jl (Yg); Broadalbin, Je, Nassau, Jl (Yg); West Pt. (Robn); **LI**: Rockaway Beach, Je (Eng).

## LUPERODES Motschulsky

- 15815 *L. thoracicus* Melsh. Broadalbin, Je (Yg); Gloversville, Sep (NYS); Conesus L., Je (Ds); Ithaca, Je-Jl (Dt); Schoharie, Je (Not); E. Nassau, Aug; Callicoon, Jl (Ds).

- 15823 **L. meraca** Say. Big Moose, Aug, Wells, JI, Newport, Je (Yg); L. Placid, Sep (Shoe); Cranberry L., *Htly* (H); L. Pleasant, Je (Eng); Mt. Whiteface, JI (Shoe); Batavia, Portage, Wyoming Co, Je (Ds); E. Aurora, Je (Flet, Dnd); Ithaca, Je (Ds, Chitt); W. Danby, May (Ds); Egleston's Glen, L. Keuka, Je (Ds); Cincinnatus, JI (Flet, Dnd); Schoharie, Je (Not); Corinth, Je (Yg); Albany, Je (Yg); Catskills (Pears); Oliverea, Je (Ds); E. Jewett, Aug (Ds); Greenwood L., JI (Sf); West Pt., JI (Eng); Slide Mt., JI (Shoe); Ft. Montgomery, Je (Schott); Pine I., Je (Ds); **SI** (L&D).
- 15824 **L. cyanellus** Lec. Olcott, Je (Dt); Ithaca, JI-Aug, *Yuasa* (Vdyk); Windsor, Je (Not); Oliverea, Je (Ds); **SI** (L&D).

## AGELASTICA Redtenbacher

- 15846 **A. alni** L. **LI**: Brooklyn, Oct (Eng).

## PHYLLECTHRUS LeConte

- 15850 **P. gentilis** Lec. Minnewaska, Aug 25, *Nic* (Frost).

## CEROTOMA Chevrolat

- 15854 **C. trifurcata** Forst. BEAN LEAF-BEETLE. Newport, May (Yg); E. Aurora, Je, Aug (Dnd); Ithaca, Aug-Sep (Dt); Schoharie, Je (Not); West Pt. (Robn); White Plains, JI-Aug (Sq); Mosholu, May (Yg); **SI**, May, JI-Sep (Ds); **LI**: Forest Pk., JI (Martin); Wyandanch, May (Schott); Brooklyn, Aug (Shoe); Baldwin, Je (Yg).

## SUBFAMILY HALTICINAE

## BLEPHARIDA Rogers

- 15858 **B. rhois** Forst. Nassau, Je (NYS); Athens, JI (Schott); Bangall, Sep (Eng); **SI**: south shore, JI (Ds); Oct (Ds); **LI**: Pinelawn, Oct, Yaphank, Sep (Eng); Wyandanch, Massapequa, JI (Schott); Orient Pt., Je, *Lath* (Yg).

## HYPOLAMPSIS Clark

- 15861 **H. pilosa** Ill. Windsor, Je (Not); Poughkeepsie, Je (Yg); **LI**: Wyandanch, Dec (Schott).

## OEDIONYCHIS Latreille

- 15865 **O. gibbitarsa** Say. Avon (Cls); **LI**: Rockaway Beach, Ap (Eng); Brooklyn, Ap (Shoe); Wading R., Je (Shoe, Ds); Gardiners I., West Hills, Je (Ds).
- 15867 **O. thoracica** Fab. Catskills, JI (Eng); Slide Mt., Je (Shoe); West Pt. (Robn); Mosholu, May (Ds); White Plains, Je (Schott); **SI**, Ap, JI (Ds); **LI**: Long Beach, May (Eng); Rockaway Beach, May, Wyandanch, Ap (Schott); L. Ronkonkoma, May (Schott); Selden, Aug, Farmingdale, Oct, Yaphank, JI (Ds).

- 15868 **O. vians** Ill. Newport, Je (Yg); Egypt's I., Nov (Ds); Olcott, Jl (Dt); Cayuga, May-Sep (Dt); Ithaca, May-Oct, *Hoffman* (Dt, Mat, Biss-CU); Voorheesville, Jl, *Leon* (Yg); Nassau, Aug (Yg); White Plains, Jl 4 (Sq); Pine I., West Pt., Je (Ds); **SI**, Je (Ds); **LI**: Rockaway Beach, May-Je (Eng, Shoe); Wading R., Jl, Aqueduct, Sep (Shoe).
- 15868a **O. vians** var. **scripticollis** Say. West Pt. (Robn); **LI**: Jamaica, Jl (Eng); Rockaway Beach, May (Ds).
- 15873 **O. fimbriata** Forst. West Pt. (Robn); **SI**, Je (L&D); **LI**: Promised Land, Je (Eng); Rockaway Beach, May-Je (Shoe); Shinnecock Hills (Ds); Half Way Hollow Hills, Jl (Ds).
- 15877 **O. miniata** Fab. West Pt. (Robn); **SI**: Great Kills, May (Ds); **LI**: Yaphank, Sep, Montauk Pt., May (Eng); Rockaway Beach, Je-Jl (div.); Wyandanch, Jl, L. Ronkonkoma, May (Schott); Wading R., Sep (Ds, Nic); Fire I., Jl, Amagansett, Sep (Ds).
- 15886 **O. limbalis** Fab. Newport, May-Je, Elm L., Aug, L. Clear, Je (Yg); Saranac L., Sep (Shoe); Cranberry L., Jl-Aug (Drk); Big Woodhull, Je, *Clims* (Dt); Protection, Jl (Dnd); Ithaca, May-Je, McLean, May (Biss-CU); Ringwood, Jl, *Yuasa* (Vdyk); Windsor, Je (Not); Corinth, Je, Karner, May (Yg); Olivera, Je, DeBruce, Jl (Shoe); West Pt. (Robn); **SI**, Je (Ds); **LI**: Amagansett, May, Yaphank, May, Sep (Eng); Bayshore, Jl (Ols); Central Pk., May (Shoe).
- 15886a **O. limbalis** var. **subvittata** Horn. Axton, Je (M&H); Saranac L., Aug; Chipmunk Swamp, Vandalia, Je, Mix Cr. Val., Rock City, Je (Biss-CU); Westfield, May (Not); Ithaca, McLean, May (Biss-CU); Windsor, Je (Not); Greenwood L. (Sf); **LI**: Amagansett, May (Eng); Promised Land, Sep (Ds).
- 15887 **O. sexmaculata** Ill. Schuyler Co, Je (H); Ithaca, Je (Eng, Yg); Poughkeepsie, Je (Yg); Ft. Montgomery, Jl (Schott); West Pt., Je (Ds); Van Cort. Pk. (Pears).
- 15889 **O. quercata** Fab. Cranberry L., *Htly* (H); Ithaca, Ap (Biss-CU); Windsor, Je (Not); West Pt. (Robn); **SI**, Ap-Je (L&D). These records probably refer to *limbalis* (Sf).
- 15890 **O. scalaris** Melsh. **SI**, Jl (L&D).

## DISONYCHA Chevrolat

- 15895 **D. pennsylvanica** Ill. Newport (Yg); Saranac Inn, Aug (Yg); Mt. Whiteface, Jl (Shoe); Rochester, Je (Biss-CU); Ithaca, Ap-Sep (Dt); Nassau, May (Yg); Pine I., Je (Ds); Slide Mt., Jl (Shoe); West Pt. (Robn); **SI**, May-Jl (Ds).
- 15895 **D. pennsylvanica** var. **pallipes** Cr. Mt. Whiteface, Jl (Shoe); Mt. Seward, Je (M&H); Sodus Pt., Sep (Yg); Rochester Jct., Je (Biss-CU); Castile, *Brad* (Flet); Ithaca, Mar-Sep, *Yuasa* (Vdyk, Biss-CU, Yg); Albany, Aug (Yg); **SI** (Ds); **LI**: Brooklyn, Rockaway Beach, May (Shoe); Cold Sp. Harb., Jl (Brb).
- **D. pennsylvanica** var. **parva** Blatch. Madison Co, May, herbage (H); Horicon, Aug (Doll); Montezuma, Aug, 1886 (Biss-CU); Callicoon, Jl (Ds); **LI**: Wading R., Je (Ds).
- 15898 **D. caroliniana** Fab. Ithaca, Je (Hoffman); West Pt. (Robn); **SI**, Je (L&D); **LI**: Yaphank, Aug-Sep (Eng, Shoe); Long Beach, May, Amagansett, Aug, Cold Sp. Harb., Sep (Eng); Wyandanch, May



(Sf); Wading R., May, Montauk (Ds); Rockaway Beach, May (Shoe); Huntington, Feb (Schott); Orient, May, *Lath* (Yg).

- **D. davisii** Sf. **LI:** Yaphank, Jl (Ds); Wyandanch, Jl (Schott).
- 15906 **D. triangularis** Say. THREE-SPOTTED FLEA BEETLE. Clyde, Severance, Aug, *Blanke*, Denmark, May (Yg); Rochester Jct., Je (Biss-CU); Honeoye Falls, Je (Ds); Olcott, May-Aug (Dt); Castile, *Brad* (Flet); Avon, May, Geneva, Oct (Cls); Westfield, Je (Yg); Ithaca, Aug (Biss-CU); Callicoon, Jl (Ds); West Pt. (Robn); **SI** (L&D); **LI:** Brooklyn, Jl-Aug (Shoe, Eng); Rockaway Beach, May, Dec (Shoe, Schott).
- 15907 **D. xanthomelaena** Dalm. SPINACH FLEA BEETLE. Newport, May (Yg); Hubbardsville, Je (Biss-CU); Rochester Jct., Je (Biss-CU); Castile, *Brad* (Flet); Avon, Feb, and Geneva, Ap (Cls); E. Aurora, May-Je, Aug (Dnd); Westfield, May (Not); Ithaca, Ap-Nov 30 (Dt, Biss-CU); West Pt. (Robn); Bronx Pk. (Sf); **SI**, Mar-Dec (L&D); **LI:** Rockaway Beach, Je, Aqueduct, Jl (Shoe); Huntington, Mar, Little Neck, Ap (Schott); Orient, Ap, *Lath* (Yg).
- 15911 **D. collata** Fab. **SI**, Je (L&D); **LI:** Flatbush, Nov (Eng); Central Pk., Ap (Schott); Rockaway Beach, May (Shoe); Gardiners I., Aug, Pine-lawn (Ds); Orient Pt., Jl, *Lath* (Yg).

#### HALTICA Geoffroy

- 15916 **H. bimarginata** Say. Wilmington, Jl (Shoe); Plattsburg, Jl (Ds); N. Elba, Jl (Wat); L. Pleasant (Lint); Jay, Jl (Britton); Corinth, Jl (Yg).
- 15917 **H. chalybea** Ill. GRAPEVINE FLEA BEETLE. Newport, May, Canandaigua, Aug (Yg); Cranberry L., Jl (Drk); L. Ontario, near Pulaski, Je (Ds); Castile, *Brad* (Flet); Onondaga Co, May-Je (H); western NY, May-Sep (Dnd); Schuyler Co (?), May-Je (H); Conesus L., Je (Ds); Horicon, Aug (Doll); Slaterville, Je, Ithaca, May-Aug (Dt); West Pt. (Robn); **SI**, May (Ds); **LI:** Aqueduct, Mar, Rockaway Beach, May (Shoe); Gardiners I., Selden, Aug (Ds); Yaphank (Eng).
- **H. betulae** Sf. Ithaca, Je, *Dt* (Sf); Chenango Co, Jl, *Shoe* (Sf); Olivera, Je (Shoe). On birch (Shoe).
- **H. gloriosa** Blatch. **LI:** Yaphank, Je (Sf). On wild rose (Sf).
- 15920 **H. kalmiae** Melsh. Mooers, Sep (Not); Olcott, May-Je (Dt); Ithaca, May-Je (Dt); Windsor, Je, Schoharie, Je (Not); Bear Mt., Aug (Schott); Stony Pt., Je (Ds); Peekskill, May (Sherm); **SI**, May, Aug-Sep (Shoe, Ds); **LI:** Yaphank, May-Jl (Eng). On laurel.
- 15920 **H. ignita** Ill.<sup>56</sup> West Pt., Je, Pine I. (Sf); Bronx Pk. (Sf). Recorded on Prunus.
- 15921 **H. rosae** Woods. Ithaca, May, *Bish* (Hoffman); Pomona, Ap (Hoffman); **SI**, Je (Ds); **LI:** Amagansett, May (Sf). On wild rose.
- **H. woodsi** Isely. Olcott, May, *Dt* (Sf); Niagara Falls; Ithaca, May, *Dt* (Sf); Ramapo, Je (Ds); **LI:** Mastic, Je (Murphy); Half Way Hollow Hills, Jl (Ds).

<sup>56</sup> Records of the strawberry flea beetle in economic literature as *H. ignita* apparently refer to a complex of *H. kalmiae*, *ignita*, *rosae*, and possibly one or two other allied species (Sf).

- 15922 *H. corni* Woods. Olcott, Ap-Je, Dt (Sf).  
 15923 *H. carinata* Germ. Mt. Whiteface, Jl (Shoe); Onondaga Co, Ap, hibernating about stump (H); Grand L., Aug (Hoffman); Tompkins Co, Je (BM); Slaterville, Je; **LI**: Amagansett, May (Eng); Flushing, Dec (Bell). On Ulmus.  
 15925 *H. aenescens* Blatch. Plattsburg (Shoe).  
 15926 *H. litigata* Fall. **LI**, Jl (Shoe); Maspeth, Long Beach, Je (Schott).  
 — *H. blanchardi* Fall. **LI**: Promised Land (Eng); Wading R., May (Schott); Amagansett, Sep (Ds).  
 15937 *H. evicta* Lec. var. *shoemakeri* Sf. Plattsburg, Catskills, Je (Shoe).  
 15942 *H. marevagans* Horn. Karner, Jl (Yg); West Pt. (Robn); Rockland, Aug (Martin); **SI**, Je (Ds); **LI**: Manorville, Sep (Eng); Rockaway Beach, Je-Jl (Eng, Shoe); Brooklyn, Sep (Shoe); Cold Sp. Harb. (Chitt); Long Beach, Aug (Schott).  
 15949 *H. fuscoarena* Melsh. Hope, Aug (Hoffman); Gloversville, Ap (Fall); McLean Bogs, Aug, Dt (Vdyk); Windsor, Je (Not); **SI**, Je (L&D).  
 15950 *H. knabi* Blatch. **SI**, Je (Ds).  
 15955 *H. rufa* Ill. West Pt. (Robn); Greenwood L. (Sf); Van Ettén, May (Hoffman); L. Katharina, Oct (Yg); **SI** (L&D).

## CHALCOIDES Foudras

- 15968 *C. fulvicornis* Fab. Widely distributed, occurring almost everywhere in the State (Sf). Peru, Je (Biss-CU); Mt. Whiteface, Jl (Shoe); Mooers, Sep (Not); Plattsburg, Jl (Ds); Oneida L., Aug (Drk); Westfield, May (Not); Onondaga and Schuyler Counties, May-Je, flying, beating trees (H); Hemlock L., Aug, Honeoye Falls, May-Aug, Rochester Jct., Je, Canton, Je, Freeville, Jl, Lyons, Je (Biss-CU); Howland L., Nov (Biss-CU); Olcott, Mar-Je (Dt); Yates Co (Ds); Ithaca, Ap-Sep (Dt, Biss-CU); Durlandville, Je, *FrostSW* (Dt); Windsor, Schoharie, Je (Not); McLean, May-Je, Ringwood, Je (Biss-CU); E. Jewett, Aug (Ds); Debruce, Jl (Shoe); West Pt., Pine L., Je (Ds); Southfields, May (Schott); **SI**, Je (Ds); **LI**: Je (Eng); Brooklyn, May (Shoe); Huntington, Sep (Schott); Orient (Ds). As *helvines* in collections (Sf).  
 15968 *C. fulvicornis* var. *violacea* Melsh. Peru, Je, Rochester Jct., Je, Ithaca, Ap-Jl, Ringwood, Je, McLean, May-Je, Ellis to Slaterville, Je, Caroline, Je, Rhinebeck, Jl (Biss-CU); Castile, *Brad* (Flet); Wyoming, Je (Ds); Rock City, Je (Ds); **LI**: Yaphank, Jl (Sf).

## CREPIDODERA Chevrolat

- 15969 *C. erythropus* Melsh. Conesus L., Je (Ds); Ithaca, Ap-Je, *Bish* (Dt, Yg, Biss-CU); Poughkeepsie, May (Yg); Windsor, Schoharie, Je (Not); West Pt., Je (Sf); Westchester Co (Ds); **SI**, Je (L&D); **LI**: Central Pk., Ap-May (Shoe, Eng); Yaphank, May (Eng, Ds); Huntington, Je, Wyandanch, May, Oyster Bay, Jl (Schott); Half Way Hollow Hills, Jl, Wading R., May (Ds).  
 15974 *C. atriventris* Melsh. Newport, May (Yg); Johnstown, Ap (Alex-NYS); Olcott, Feb, Je (Dt); Ithaca, Aug-Sep (Dt, Hoffman); McLean, May (Biss-CU); Catskills (Pears); West Pt. (Robn); **SI**, (Ds); **LI**: Brooklyn, Je, Rockaway Beach, May (Shoe).

## HIPPIURIPHILA Foudras

- 15977 **H. modeeri** L. Albany (Hoffman); Ithaca, *Frost*, on Rumex.

## EPITRIX Foudras

- 15982 **E. cucumeris** Harr. POTATO FLEA BEETLE. Widely distributed, and occurring almost everywhere in the State (Sf) on a variety of field and garden products. Peru, Je, Wilmington, Aug, Pulaski, Je, Honeoye Falls, May-Aug, Rochester, May, Newark, Jl, Indian Falls, Je, Waterville, May-Je, E. Bethany, Jl, Dunkirk, Aug, Rock City, Je, Ithaca, May-Aug, McLean, May-Jl, Ringwood, Je, Ellis to Slaterville, Je, Caroline, Je, Freeville, Aug, W. Danby, Aug, Spencer L., Je, Willseyville, May (Biss-CU); Schuyler, Onondaga, and Madison Counties, May-Je, herbage (H); Schoharie, Windsor, Je (Not); Ramapo, May (Ds); West Pt. (Robn); **SI**, Je-Sep (Ds); **LI**: Greenport, Aug, Flatbush, Ap, Yaphank, May (Eng); Rockaway Beach, May (Eng, Shoe); Wading R., Aug, Maspeth, May, Fire I., Aug, Central Pk., May (Ds); Massapequa, May (Shoe); Wyandanch, Jamaica, May (Schott); Farmingdale, Jl, Nassau Co, May (Biss-CU).
- 15986 **E. parvula** Fab. Schuyler, Onondaga, and Madison Counties, May-Je, herbage (H); Van Cort. Pk., Aug (Sf); **LI**: Wyandanch, Nov (Schott).

## ORTHALTICA Crotch

- 15988 **O. copalina** Fab. Newport, Je (Yg); Pike (Yg); Westfield, Je (Yg); Schuyler Co, Je (H); Ithaca, Je-Aug (Vdyk, Dt, Biss-CU); Schoharie, Je-Jl (Not, Lint); Poughkeepsie, Je (Yg); Middletown, Jl (Biss-CU); DeBruce, Jl (Shoe); Olivera, Je (Ds); West Pt., Je (Ds, Robn); Stony Pt., Je (Ds); **SI**, Je (Ds); **LI**: Brooklyn, Jl (Shoe); Cold Sp. Harb., Jl (Brb).

## LUPERALTICA Crotch

- 15991 **L. fuscula** Lec. Ulster Co, Sep (Nic); Ft. Montgomery, Sep (Schott); Howland I., Je, *Dt* (Vdyk).

## MANTURA Stephens

- 15993 **M. floridana** Cr. Onondaga Co, May, herbage (H); Pike, May (Yg); Ithaca, May-Nov 13 (Biss-CU); Windsor, Je (Not); West Pt. (Robn); Mosholu (Sf); **SI**, Mar-Dec (L&D).

## CHAETOCNEMA Stephens

- 15995 **C. cribrata** Lec. McLean, Je (Biss-CU).
- 15998 **C. subcylindrica** Lec. Westfield, May (Not); Ithaca, May, McLean, May-Je (Biss-CU); DeBruce, Jl (Shoe); Howland I., Je (Dt).
- 16001 **C. denticulata** Ill. Olcott, May-Jl (Dt); E. Aurora, Je-Oct (Dnd); West Pt., Sep (Robn); Bronx Pk. (Sf); **SI**, Jl (Shoe); **LI**: Flatbush, Dec (Eng); Brooklyn, Rockaway Beach, May (Shoe).
- 16002 **C. cribrifrons** Lec. **SI**: Tottenville, Jl (Woodr). Determination queried by Sf.

- 16006 **C. minuta** Melsh. Newport, May (Yg); Windham, Oct (Dt); Onondaga Co, May (H); Westfield, May (Not); Ithaca, JI (Dt, Vdyk); McLean, May (Biss-CU); Middletown, JI (Biss-CU); Albany, May (Yg); Mosholu (Sf).
- 16013 **C. parcepunctata** Cr. Ithaca, May (Vdyk); **SI**, JI (L&D).
- 16014 **C. pulicaria** Melsh. West Pt. (Robn); Suffern, May (Love); **SI**, JI, Nov (L&D); **LI**: Flatbush, Mar (Eng); Rockaway Beach, May, Brooklyn, Aug-Sep (Shoe).
- 16016 **C. confinis** Cr. SWEET POTATO FLEA BEETLE. Onondaga Co, May (H); Ithaca, Je-Aug (div.); Freeville (Biss-CU); Albany, Rensselaer, Poughkeepsie, May (Yg); **SI**, JI (L&D).
- 16020 **C. quadricollis** Schwz. **LI**: Glen I. (Sf).

#### SYSTEMA Clark

- 16022 **S. hudsonias** Forst. SMARTWEED FLEA BEETLE. Newport, Northampton, Je (Yg); Canton, Je (Biss-CU); Rochester Jct., Je, Honeoye Falls, Sonyea, Je (Biss-CU); Portageville, Je (Ds); Buffalo (Forst); Westfield, Je (Yg); Fredonia (Felt); Castile, *Brad* (Flet); Crosby Landing, Je (Biss-CU); Ithaca, Je-JI (div.); Ringwood, McLean, Je (Biss-CU); Windsor, Schoharie, Je (Not); Slingerland, JI, Albany, Aug, Schodack Landing, Je (Yg); Nyack, Je (Ds); West Pt. (Robn); Middletown, JI (Biss-CU); Ramapo, May (Ds, Love); Van Cort. Pk., JI (Biss-CU); **SI**, Je (Ds); **LI**: Yaphank, Rockaway Beach, Je (Eng); Cold Sp. Harb., JI (Brb); Gardiners I., Aug, Wading R., Je (Ds).
- 16023½ **S. frontalis** Fab. RED-HEADED FLEA BEETLE. Mooers, Sep (Not); Saranac L., Sep (Shoe); Syracuse, Aug (Felt); Perry, Aug, *Hawley* (Vdyk); Pike, Aug (Yg); Geneva, Aug, *Pollier* (Lint); Sheridan, Fredonia, Potter Swamp, Aug (Biss-Cu); Ithaca, Je-Sep (Dt, Biss-CU); Coy Glen, Michigan Swamp, Je (Biss-Cu); Schenectady, JI, Scotia, Aug (Yg); central NY, Aug-Sep (Chitt); Callicoon, JI (Ds); Catskills (Pears); West Pt. (Robn); **SI** (L&D); **LI**: Wyandanch, Je (Schott); Brooklyn, Sep (Shoe); Orient, *Lath* (NYS).
- 16027 **S. elongata** Fab. Olivera, Sep (Ds); **LI**: Bay Shore, JI (Ols).
- 16028 **S. taeniata** Say. PALE-STRIPED FLEA BEETLE. Rochester Jct., Je-JI (Biss-CU); Olcott, JI (Dt); E. Aurora, JI-Aug (Dnd); Newark, *Stuart*; S. Byron (Felt); Ithaca, JI-Aug, Oct (Dt, Biss-CU); Middletown, JI (Biss-CU); Albany, Oct (Yg); Schoharie, Je (Not); Alps, Aug (Martin); **LI**: Huntington, JI (Schott); Rockaway Beach, Je (Ds); Central Pk., Je (Shoe).
- 16029 **S. marginalis** Ill. Hamburg, Aug (Yg); Ithaca, Aug-Sep (Dt); Coy Glen, Aug, *Dt* (Vdyk); L. George, Aug (Zab); Albany, Sep (Yg); Ulster Co, Sep (Sf, Shoe); West Pt. (Robn); Ft. Montgomery, Sep (Schott); Westchester Co, Sep (Ds); **SI**, Je, Aug-Sep (Ds, Pears); **LI**: Yaphank, Sep (Eng); Bay Shore, JI (Ols).

#### LONGITARSUS Latreille

- 16034 **L. turbatus** Horn. Ithaca, Ap-May (div.-CU); **SI** (L&D).
- 16046 **L. pygmaeus** Horn. Schoharie, Je (Not).
- 16047 **L. testaceus** Melsh. Madison Co, May, on herbage (H); Honeoye Falls, Aug (Sf-CU); Olcott, Feb (Dt); Ellis, Tompkins Co, Je (CU); **SI**, Je (L&D).

- 16049 **L. melanurus** Melsh. Ithaca, Ap-Je (Biss-CU); Slaterville, May (Biss-CU); Willseyville, May (Biss-CU); New Baltimore, May (Yg); **SI** (L&D); **LI**: Bellport, Je, *Nic* (Yg).  
 16051 **L. insolens** Horn. Newport, May-Je (Yg); Suffern, May (Love); **SI**, Jl (L&D).

## GLYPTINA LeConte

- 16060 **G. abbreviata** Gent. Ithaca, Ap (Sf-CU); Onondaga Co, May (H); Durlandville, May, *FrostSW* (Dt).  
 16061 **G. spuria** Lec. Ithaca, Ap-Je (Dt, Biss-CU); Albany, Je (Hoffman); Ft. Edward, Je (Biss-CU); Bronx Pk. (Sf); **LI**: Massapequa, May (Shoe).

## PHYLLOTRETA Foudras

- 16065 **P. sinuata** Steph. SINUATE-STRIPED FLEA BEETLE. Potsdam, Je (Yg); Hubbardsville, Je, Rochester Jct., May-Je, Ithaca, May-Jl, Nov 13 (Biss-CU); Pike, Je (Yg); Ft. Montgomery, Je (Schott); **SI**, Je-Jl (L&D); **LI**: Yaphank, May (Eng); Cold Sp. Harb. (Brb); Orient, *Lath* (NYS); Bay Shore (Ols).  
 16066 **P. vittata** Fab. STRIPED CABBAGE FLEA BEETLE. Hubbardsville, Je (Biss-CU); Alexander, Jl (Biss-CU); Gloversville, Je (Yg); Clinton, May (Yg); Honeoye Falls, Jl (Biss-CU); Castile, *Brad* (Flet); Onondaga Co, May (H); Ithaca, May-Aug, Nov (Dt, Biss-CU); McLean, May-Je (Biss-CU); Ulster Co, Sep (Shoe); West Pt. (Robn); **SI**, Je, Aug (L&D); **LI**: Nassau Co, Newtown, Ap (Biss-CU).  
 16068 **P. robusta** Lec. Cranberry L., *Htly* (H).  
 16074 **P. bipustulata** Fab. Newport (Yg); E. Aurora, May (Dnd); Westfield, May (Not); Ithaca, Ap, McLean, May (Biss-CU); West Pt. (Robn); Pine L., May (Schott); **SI**, Je (L&D); **LI**: Rockaway Beach, May (Eng, Shoe); Brooklyn, Aug (Shoe).  
 16075 **P. armoraciae** Koch. HORSE-RADISH FLEA BEETLE. Rochester Jct., Je (Biss-CU); Olcott, Ap-May (Dt); E. Aurora, May (Dnd); Schuyler Co, Je (H); Ithaca, May, *Bish* (Yg, Biss-CU); McLean, Je (Biss-CU); Ringwood, Jl, *Yuasa* (Vdyk); Schoharie, Je (Not); West Pt. (Robn); **LI**: Rockaway Beach, May (Shoe); Flushing (Leon); Newtown, Ap (Biss-CU).  
 16076 **P. chalybeipennis** Cr. **SI**, Aug (Ds); **LI**: (Sf); Rockaway Beach, Aug, Oct (Schott, Shoe); Orient, Ap, *Lath* (Yg); Gardiners L., Je (Yg).  
 16081 **P. picta** Say. Ft. Montgomery, Jl, Nyack, Je (Ds); **SI** (L&D).

## DIBOLIA Latreille

- 16086 **D. borealis** Chev. Peru, Jl (Biss-CU); Newport, May (Yg); Oneida L., Aug (Drk); N. Pulaski, Je (Ds); Rochester Jct., Je-Jl (Biss-CU); Olcott, Ap (Dt); Castile, *Brad* (Flet); Pike, Mar (NYS); Honeoye Falls, Ap, Je (Ds, Biss-CU); Westfield, May (Not); Mix Cr. Val. (Biss-CU); Rock City, Je (Ds, Biss-CU); Keuka Pt., Oct, Schurgers Gorge, Nov 24 (Biss-CU); Schuyler, Onondaga Co, Ap-Je, on herbage, flying (H); Ithaca, Mar-Nov, *Frost* (Dt, Bks, Biss-CU); McLean, May-Je (Biss-CU); Schoharie, Je (Not); Slingerland, Jl (NYS); Albany, Jl (Yg); Cortland, Jl (Bks); Middletown, Jl, Rhinebeck, Jl



(Biss-CU); West Pt. (Robn); Westchester Co (Ds); **SI**, Jan (Ds); **LI**: Rockaway Beach, Jl, Long Beach, May (Eng); Brooklyn, May, Massapequa, Jl (Shoe).

- 16088 **D. libonoti** Horn var. (?). Ringwood, Je (Sf-CU); Slaterville, Je (Sf-BM).

#### PSYLLIODES Latreille

- 16089 **P. punctulata** Melsh. HOP FLEA BEETLE. Newport, Glens Falls, Je (Yg); Hubbardville, Je, Waterville, May (Biss-CU); L. Placid, Sep (Shoe); Howland I., Aug (Biss-CU); Honeoye Falls, Aug (Biss-CU); Rochester Jct., May-Jl (Biss-CU); Olcott, Jl (Dt); Westfield, May (Not); Potter Swamp, Aug (Biss-CU); Rock City, Je (Ds); Ithaca, Ap-Aug (Biss-CU); McLean, May-Je (Biss-CU); Madison Co, May, on herb-  
age (H); Ulster Co, Sep (Nic); Dormansville (Biss-CU); **SI**, Mar (L&D); **LI** (Eng).
- 16090 **P. convexior** Lec. Ithaca, Ap, Nov (Biss-CU).

#### SUBFAMILY HISPINAE

##### STENISPA Baly

- 16094 **S. metallica** Fab. Poughkeepsie, May (Yg); Pine I., May (Schott); West Pt. (Robn); **SI**, May-Je (L&D); **LI**: Brooklyn, Jl, Massapequa, Je (Shoe).

##### ANOPLITIS Chapuis

- 16105 **A. inaequalis** Web. Newport, Je (Yg, Felt); Olcott, Je (Dt); Avon, Je, Aug (Cls); E. Aurora, Je (Dnd); Westfield, May (Not); Castile, Brad (Flet); Schuyler Co, Je (H); Ithaca, May-Sep, *Yuasa* (Vdyk, Dt); Windsor, Je (Not); Trenton Falls, Je (Cy); Phoenicia, Aug (EPV); Albany, Je (Yg); Poughkeepsie, May (Yg); Nyack, Je (Ds); Ramapo, May, Ft. Montgomery, May (Ds); West Pt. (Robn); White Plains, all summer (Sq), as *nervosa* Panz.; **SI**, Je (Ds); **LI**: Yaphank, May-Je (Eng); Flushing, Je, Aug (Eng, Ds); Fire I., Aug, Massapequa, Jl (Ds); Orient, *Lath* (NYS).

##### CHALEPUS Thunberg

- 16109 **C. bicolor** Oliv. West Pt. (Robn); Ft. Montgomery, Je (Schott); White Plains, May (Sq); **SI**, Jl (Ols); Watchogue, Sep (Ds); **LI**: Rockaway Beach, May (Eng).
- 16111 **C. scapularis** Oliv. White Plains, all summer (Sq); Holersville, Je (Leon); West Pt. (Robn); **SI**, May-Je, Aug (Ds); **LI**: Yaphank, May, Flushing, Je, Rockaway Beach (Eng); Greenport, Aug (Eng, Ds); Wyandanch, Jl (Schott).
- 16113 **C. dorsalis** Thunb. E. Aurora, Sep (Dnd); McLean Bogs, Aug, *Yuasa* (Vdyk); Ithaca; Schoharie, Je (Not); Nassau, Je (Hartman); Poughkeepsie, May (Yg); West Pt. (Robn); **SI**, May-Je, Aug (Ds); **LI**: Hempstead Plains, May (Eng); south of Smithtown, Je, Wading R., May (Ds); Syosset, Aug (NYS); Central Pk., May, Yaphank, Aug (Ds); Rockaway Beach (Shoe); Oakdale, Aug (Schott); Wyandanch, Jl, Oyster Bay, May (Schott); Jamaica, Aug (EPV); Orient, *Lath* (NYS).
- 16114 **C. horni** Sm. **SI**, on *Tephrosia* (Rbts).

**BALIOSUS** Weise

- 16116 **B. ruber** Web. N. Pulaski, Je (Ds); Olcott, Je-Jl (Dt); E. Aurora, May-Je (Dnd); Conesus L., Je (Ds); Ithaca, May, Aug (Dt); Windsor, Je (Not); Bangall, Sep (Eng); West Pt. (Robn); **SI**, Ap-Oct (L&D); **LI**: Yaphank, May, Promised Land, Sep (Eng); Rockaway Beach, May (Eng, Shoe); Wyandanch, Jl, Little Neck, Ap (Schott); Orient, Sep (Ds, Schott); Wading R., Selden, Aug (Ds).

**UROPLATA** Baly

- 16126 **U. porcata** Melsh. "NY" (Dietz); Ithaca, Je (Hoffman); Karner, May (Yg); West Pt. (Robn); **SI**, Je-Jl (L&D).

**MICRORHOPALA** Baly

- 16129 **M. vittata** Fab. Honeoye Falls, Je (Ds); Onondaga Co, under stone (H); E. Aurora, Je, Wales, Jl (Dnd); Windsor, Je (Not); Thomson, May (Leon); Poughkeepsie, Jl, Kinderhook, Oct, Watervliet Reservoir, Nassau L., Sep (Yg); E. Jewett, Aug (Ds); West Pt. (Robn); White Plains, May-Je (Sq); **SI**, May, Jl (Ds); **LI**: Jamaica (Vdyk); Forest Pk., Je (Lg); Rockaway Beach, Ap-May, Central Pk., Ap, Flushing, Je (Eng); Wading R., Je (Ds); Brooklyn, May (Shoe); Little Neck, Aug, Cedarhurst, Dec (Schott).
- 16130 **M. xerene** Newm. Greenwood L. (Sf); Olivera, Je, Debruce, Jl (Shoe); West Pt. (Robn); Ramapo, May (Ds); White Plains, Jl-Aug (Sq).
- 16133 **M. excavata** Oliv. Speculator, Je (Yg); L. Placid, Aug (EPV); Gloversville, Jl (Alex); Windsor, Je (Not); Olivera, Je (Ds, Shoe); Debruce, Jl (Shoe); White Plains, May-Jl (Sq); West Pt., Je (Ds); Van Cort. Pk. (Sf); **SI**, May (L&D); **LI**: Cold Sp. Harb., Jl (Brb).
- 16135 **M. cyanea** Say. Cranberry L., Aug (Drk); Ithaca, Je (Dt).

SUBFAMILY **CASSIDINAE****CHELYMORPHA** Boheman

- 16139 **C. cassidea** Fab. Newport (Yg); Alder Cr., Jl (Yg); Ilion, May (Yg); Castile, *Brad* (Flet); Geneva, Utica, Aug (Cls); Ithaca, May-Jl (div.); Ringwood, Jl, *Yuasa* (Vdyk); Schenectady, May, Poughkeepsie, May (Yg); Rensselaer, May (House); West Pt. (Robn); Ft. Montgomery, Aug (Schott); White Plains, May (Sq); **SI**, Ap, Je, Aug (Ds); **LI**: Flatbush, May-Je (Sf, Ds); Flushing, Dec, Wading R., Je (Ds); Rockaway Beach, May-Je, Sep (Shoe).

**PHYSONOTA** Boheman

- 16142 **P. unipunctata** Say. Blossom, Aug (Dnd); Ithaca, Jl-Sep (Dt); Windsor, Je (Not).
- 16142a **P. unipunctata** var. *quinquepunctata* Walsh. **LI** (Eng).

**CASSIDA** Linnaeus

- 16147 **C. flaveola** Thunb. Suffern, May (Sf).

## JONTHONOTA Spaeth

- 16149 **J. nigripes** Oliv. Oneida L., Aug (Drk); West Pt. (Robn); **LI**: Rockaway Beach, May (Ds, Shoe).

## CHIRIDA Chapuis

- 16152 **C. guttata** Oliv. Ilion, May (Yg); Onondaga Co, May (H); E. Aurora, May-Sep (Dnd); Pike, Aug (Yg); Portageville, Je (Ds); Castile, Brad (Flet); Westfield, May (Not); Ithaca, Je-Jl (Dt, Vdyk); Windsor, Je (Not); Albany, May (Yg); West Pt. (Robn); White Plains, Je (Sq); Ramapo, Jl (Ds); **SI**, Je-Aug (Ds); **LI**: Long Beach, Je (Eng); Far Rockaway (Johnson); Flatbush, Mar, Orient, Jl (Ds); Rockaway Beach, May (Shoe); Wading R., May-Je (Ds, Schott); Glendale, Ap (Schott).
- 16152a **C. guttata** var. **pennsylvanica** Sp. Ithaca, Je (Dt); White Plains, Je (Sq); **LI**, Mar, Aug (Eng).
- 16152b **C. guttata** var. **lucidula** Boh. **LI**: Flatbush, Ap, Aug (Eng).

## DELOYALA Chevrolat

- 16155 **D. clavata** Fab. Geneva, Mar-Je (Cls); Ithaca, Je-Jl, Sep (Dt, Vdyk); Albany, Jl, Poughkeepsie, Je, Warwick, Jl (NYS); Amenia, Je (Yg); West Pt., Je-Jl (Eng, Ds); White Plains, Je (Sq); **SI**, Je (Ds); **LI**: Yaphank, Sep (Eng); Wading R., Je-Jl (Sf, Ds); Huntington, Jl, Wyandanch, Je (Schott); Central Pk., May (Ds).

## METRIONA Weise

- 16157 **M. bicolor** Fab. Newport, Ogdensburg, Je, Ilion, May (Yg); Oneida L., Aug (Drk); western NY (Dnd); Schuyler, Onondaga Co, May-Je (H); Lowville (Ds); N. Pulaski, Je (Ds); Pike, Jl (Yg); Ithaca, May-Aug (Dt, Vdyk); Windsor, Je (Not); L. George, Jl (Yg); West Pt. (Robn); White Plains, May (Sq); **SI**, May (Ds); **LI**: Flatbush, Mar (Eng); Whitestone, Sep (Hoffman); Rockaway Beach, May (Eng, Ds); Amagansett, Aug (Sf); Central Pk., May-Je (Shoe, Ds); Jamaica, Yaphank, Jl (Schott); Central Pk. (Ds); New Utrecht, Flushing, Gardiners I., Aug (Ds); Orient Pt., Je (Lath).
- 16159 **M. purpurata** Boh. Severance, Je (Bks); Syracuse, Sep (Drk); Rensselaer, May (Yg); Ilion, May (Yg); **LI** (Eng).

## FAMILY MYLABRIDAE

## (Bruchidae)

## MYLABRIS Mueller

## (Bruchus Linnaeus)

- 16165 **M. pisorum** L. PEA WEEVIL. Generally distributed throughout the State, infesting dried peas.
- 16166 **M. rufimanus** Boh. BROAD BEAN WEEVIL. Buffalo (Z&R); Poughkeepsie (WBDwight).

- 16172 *M. quadrimaculatus* Fab. FOUR-SPOTTED BEAN WEEVIL. NYC, in Russian peas. (Kaeber, Ent. News, vol. 24, p. 43, 1913.)
- 16175 *M. discoideus* Say. Cayuga L., Jl, swept from goldenrod and other flowers (Zab); **SI**, Je 19 (L&D).
- 16188 *M. cruentatus* Horn. **LI**: Amagansett, Aug, *Eng* (Sf).
- 16190 *M. nigrinus* Horn. **SI** (L&D); **LI**: Central Pk., Ap (Eng).
- 16211 *M. longistilus* Horn. **LI**, *Eng* (Sf).
- 16218 *M. alboscutellatus* Horn. **SI**, Je, Aug, Sep (L&D); **LI**: Jamaica, Jl, *Eng* (Sf).
- 16221 *M. obtectus* Say. BEAN WEEVIL. Generally distributed throughout the State, infesting dried beans.
- 16222 *M. hibisci* Oliv. **SI**, often common in seeds of the marsh mallow in Sep (L&D); **LI**: Rockaway Beach, *Dietz* (Sf).
- 16231 *M. calvus* Horn. Ithaca, Jl 23 (NYS); **LI**: Yaphank, Jl, Oct, Hempstead Plains, May, *Eng* (Sf).
- 16236 *M. musculus* Say. Mosholu, Aug (NYS); **SI**, Je (L&D).
- 16244½ *M. lentis* Froel. Buffalo, in lentils in a store (Lint); Ithaca (CU).

## SPERMOPHAGUS Schönherr

- 16246 *S. hoffmannseggii* Gyll. Ithaca, Jl (CU); **SI**, Nov, from seeds of honey locust (L&D); Van Cort. Pk. (Sf).

## ZABROTES Horn

- 16251 *Z. subnitens* Horn. **LI**: Yaphank, Je (Sf).
- 16254 *Z. pectoralis* Sharp. Perry, bred from S. Am. beans by I. M. Hawley (Vdyk).

RHYNCHOPHORA<sup>57</sup>

## FAMILY BRENTIDAE

## EUPSALIS Lacordaire

- 16256 *E. minuta* Dru. Rochester (M&W); Buffalo (Z&R); Chautauqua, Je (Ds); Ithaca, Je, on oak and hemlock; West Pt., Je (Ds); Cairo, Jl (Ig); Bronx (Lg); **SI**, May-Sep, under oak, poplar, beech, maple, and chestnut (L&D); **LI**, Je (Ds).

## FAMILY PLATYSTOMIDAE

## ORMISCUS Waterhouse

- 16263 *O. saltator* Lec. Rochester (M&W); Buffalo (Z&R); E. Schodack, Jl (NYS); Mosholu, Bronx, Je (Joutel); **SI**, Je, in dead wood of deciduous trees (L&D); **LI**: Rosedale, Je (Nic).

<sup>57</sup> The list in this group has, with the exception of the family Scolytidae, been compiled by Chas. W. Leng. He has checked all of the records as far as practicable, but is not to be held responsible for those not credited directly to him. About fifty species more have been recorded from neighboring States but are here omitted because of the lack of definite New York localities. Mr. Fall has looked over Apion; Mr. Satterthwait has contributed valuable records in Calendra; Mr. Nicolay and Mr. Buchanan have supplied many records throughout the group and have gone over the manuscript.

**EUSPHYRUS** LeConte

- 16275 **E. walshii** Lec. Rochester (M&W); Buffalo (Z&R); Genesee Co, Je (Lg); **SI**, Je, on hickory (L&D).

**GONOTROPIS** LeConte

- 16278 **G. gibbosus** Lec. Big Moose, J1 (NYS).

**EURMYCTER** LeConte

- 16279 **E. fasciatus** Oliv. Newport (NYS); Mt. Whiteface, J1 (Lg); Brant L., J1, *Doll* (Sf); Cranberry L. (H); Onondaga, Sep (NYS); Buffalo (Z&R); Pike (NYS); Castile, Je, *Brad* (Flet); Ithaca, Aug (Dt); Windsor, Je (Not); Harrison, J1 (Sf); **SI**, Mar, on fungus on dead beech.

**TROPIDERES** Schönherr

- 16282 **T. bimaculatus** Oliv. Rochester (M&W); Bronx, Je (Joutel). On dead twigs (B&L).  
16283 **T. rectus** Lec. "NY".

**ALLANDRUS** LeConte

- 16284 **A. bifasciatus** Lec. Rochester (M&W); Buffalo (Z&R); Ludlow (JCT); Washington Co, J1 (Lg). On linden (B&L).

**PIEZOCORYNUS** Schönherr

- 16288 **P. dispar** Gyll. Buffalo, in fungus on dead beech (B&L).  
16290 **P. mixtus** Lec. Buffalo (Z&R); Mosholu, J1 (Sf). From base of maple trees (B&L).  
16291 **P. moestus** Lec. Mosholu, J1 (Sf).

**ANTHRIBUS** Geoffroy

- 16293 **A. cornutus** Say. Taughannock Falls, Aug (Hamilton); L. George, J1 (Zab); **LI**: Flatbush, Aug (Zab). On locust (Felt); on woody fungi (B&L).

**EUPARIUS** Schönherr*(Cratoparis* Schönherr)

- 16299 **E. marmoreus** Oliv. Streetroad, Je, *Bks* (NYS); Newport, May (NYS); Wells, Ap, Cy (NYS); Westport, Oct (NYS); Cranberry L., Je-Aug (H); Axton, Je (Houghton); Syracuse, on hickory (Blkm); Rochester (M&W); Olcott, May-Aug (Dt); Buffalo (Z&R); Pike (NYS); Westfield, May (Not); Ithaca, May-Aug (Dt); West Pt. (Robn); Bronx, J1 (Joutel); **SI**, Ap-J1, on woody fungus, *Polyporus versicolor*, on oak (L&D); **LI**: Wyandanch (Sf). On fungi on maple and beech (Flet).



BRACHYTARSUS Schönherr<sup>58</sup>

- 16303 **B. alternatus** Say. Rochester (M&W); **SI**, Sep (L&D). Bred from fungus *Cystopus*.
- 16304 **B. sticticus** Boh. Potsdam, May (NYS); Mooers, Sep (Not); Cranberry L., Je 24 (H); Rochester (M&W); Buffalo (Z&R); Westfield, May (Not); Ithaca, Ringwood, Howland I., May-Je (Dt); Shortsville (Lint); Ludlow, Sep (JCT); **SI**, Je, in smut of corn and wheat (L&D).
- 16305 **B. tomentosus** Say. Cranberry L., Je (H); Rochester (M&W); Ithaca, Aug; Windsor, Je (Not); Peekskill, Ludlow (JCT); West Pt. (Robn); Van Cort. Pk. (Sf); **SI**, Je, sometimes abundant on ragweed (L&D); **LI**: Bellport, Aug (Nic).
- 16307 **B. limbatus** Say. "NY" (Sf).
- 16308 **B. plumbeus** Lec. "NY", Aug.

## ANTHRIBULUS LeConte

- 16315 **A. rotundatus** Lec. Bronxville, from gall of *Drastrophus bassetti* (AM); Van Cort. Pk., Aug (Sf); **SI** (L&D); **LI**: Bellport, Aug (Nic).

## ARAEOCERUS Schönherr

- 16316 **A. fasciculatus** DeG. NYC, introduced from Cayenne (B&L).

## CHORAGUS Kirby

- 16317 **C. sayi** Lec. "NY", on beech (Jour. N. Y. Ent. Soc., vol. 1, p. 88).
- 16318 **C. zimmemmanni** Lec. **LI**: Wading R., Jl (Sf). In fungus-infested twigs (B&L).
- [16320 **C. nitens** Lec. Mass. to D.C., on dead twigs (B&L).]

## EUXENUS LeConte

- 16322 **E. punctatus** Lec. Canada to D.C., on twigs (B&L).

## FAMILY BELIDAE

## ITHYCERUS Schönherr

- 16324 **I. noveboracensis** Forst. THE NEW YORK WEEVIL. Newport, Je (NYS); Syracuse (Blkm); Buffalo (Z&R); Ithaca, Jl (NYS); West Pt. (Ds, Robn); Rockland Co, Je (Joutel); West Farms (Zab); Van Cort. Pk., May-Je (Nic); **SI**, May-Jl (L&D); **LI**: Jamaica (Nic); Bellport, May-Je (Nic); Yaphank, Wading R., Half Way Hollow Hills, May-Jl (Ds); Flatbush, Jl (Zab). On oak, hickory, beech (B&L); sometimes injurious to apple, pear, cherry, and plum orchards.

<sup>58</sup> The larvae of *Brachytarsus* prey on Coccidae (Camb. Nat. Hist. Ins., p. 290).

## FAMILY CURCULIONIDAE

## SUBFAMILY RHINOMACERINAE

## RHINOMACER Fabricius

- 16325 *R. pilosus* Lec. Karner, Ap (Felt); **LI**: Central Pk., Ap (Eng). On pine (B&L).
- 16326 *R. elongatus* Lec. Ringwood, Ithaca, May (Dt); Albany, Karner, Ap, Delmar, May (NYS); Broadalbin, Ap (NYS); **LI**: Pinelawn, Je (Eng).
- 16327 *R. pallipennis* Blatch. N.H. to Pa. (B&L).

## SUBFAMILY RHYNCHITINAE

## AULETES Schönherr

- 16331 *A. ater* Lec. Buffalo (Z&R); **SI**, on sweet fern and bayberry (L&D); **LI**: Yaphank, Pinelawn, Je (Ds).
- 16338 *A. albovestita* Blatch. Cranberry L., Je (H); Oswego, Jl-Aug (Pierce); Nassau, Salem, Aug (NYS); Peekskill, Sandy Hill (JCT); West Pt. (Robn); Dundee, Je (Hubbard&Schwarz); **LI**: Bellport, Aug (Nic).

## EUGNAMPTUS Schönherr

- 16343 *E. collaris* Fab. Newport, May-Je (NYS); Buffalo (Rein); Albany, Karner, Je (NYS); West Pt. (Robn); Mosholu, Jl (NYS); Van Cort. Pk. (AM); **SI**, Je-Jl, on hickory (L&D); **LI**: Cold Sp. Harb., Jl (H).
- 16343a *E. collaris* var. *nigripes* Melsh. **SI**, Je-Jl, on hickory (L&D); **LI**: Smithtown, Aug (Ds); Riverhead, Aug (Ds); Cold Sp. Harb., Jl (H).
- 16347 *E. angustatus* Hbst. Buffalo (Z&R); Mosholu (Joutel); West Farms (Joutel); Bronxville (AM); **SI**, Je-Aug, on hickory leaves (L&D); **LI**: Hempstead (AM).

## RHYNCHITES Herbst

- 16348 *R. bicolor* Fab. THE ROSE CURCULIO of the Transition zone (B&L). Rochester, Jl (AM); S. Byron, Je (NYS); Buffalo (Z&R); Ithaca, Je; Karner, Je, Troy, Jl (NYS); Peekskill, Jl (Joutel); West Pt. (Robn); Yonkers, Jl (NYS); Mosholu, Je (Joutel); Bronx, Je (Joutel); **SI**, Je, on roses, the larvae in the hips (L&D).
- 16351 *R. aeneus* Boh. Ft. Montgomery, Jl (B&L); Rockland Co, Aug, *Brownell* (CU).
- 16354 *R. hirtus* Fab. **SI**, Je-Jl, on blackjack oak (L&D); **LI**: Yaphank, Jl (Ds).
- 16359 *R. cyanellus* Lec. Chazy L., L. Clear, Je (NYS); Fulton Co, May, on willow leaves; N. Chatham, Je, on willow (Felt); Callicoon (AM).
- 16361 *R. aeratus* Say. **SI**, Jl, on oak (L&D).

## SUBFAMILY ATTELABINAE

ATTELABUS Linnaeus <sup>59</sup>

- 16365 *A. analis* Ill. Buffalo (Z&R); Shokan (JCT); Poughkeepsie (Yg); West Pt. (Robn); **SI**, Jl, on oak (L&D); **LI**: Deep Pond, Wading R., May (Ds).
- 16365a *A. analis* var. *similis* Kby. Rochester (M&W); White L., Sep (AM); Rock City, Je (Ds).
- 16366 *A. nigripes* Lec. White L., Aug (Zab); West Pt. (Robn); **SI**, May-Aug, on *Rhus copallina* (L&D); **LI**: Yaphank, Jl, Pinelawn, Aug (Ds); Half Way Hollow Hills, Jl (Ds).
- 16367 *A. bipustulatus* Fab. Buffalo (Z&R); Albany (Felt); Sullivan Co (AM); West Pt. (Robn); **LI**: Yaphank, Pinelawn, Smithtown, Wading R., May-Aug (Ds). On oak (B&L).
- 16369 *A. rhois* Boh. Windsor, Je (Not); Mt. Whiteface, Jl (Ds); West Pt. (Robn); Van Cort. Pk. (AM).

## SUBFAMILY PTEROCOLINAE

## PTEROCOLUS Schönherr

- 16370 *P. ovatus* Fab. Buffalo (Z&R); Hastings, Jl (Joutel); Karner, Je (NYS); West Pt. (Robn); **SI**, Aug, on oak (L&D); **LI**: Yaphank, May, on oak (B&L); Wyandanch, Deep Pond, Wading R., May-Jl (Ds).

## SUBFAMILY APIONINAE

## APION Herbst

- 16373 *A. impeditum* Fall. Windsor, Je (Not); Peekskill, type locality (Fall).
- 16376 *A. impunctistriatum* Sm. Breeds in stems of *Heterotheca* and *Ambrosia* (B&L).
- *A. bischoffi* Fall. **SI** (Fall).
- 16379 *A. atripes* Sm. Schoharie (Not).
- 16380 *A. finitimum* Fall. Mass. to D.C. (Fall).
- 16382 *A. melanarium* Gerst. Westfield, May (Not); **SI**, Je-Jl (L&D); **LI** (Fall).
- 16389 *A. molestum* Fall. Orangeburg, May (Nic).
- 16390 *A. minutum* Sm. "NY" (JBSm).
- 16392 *A. pennsylvanicum* Boh. Windsor, Je (Not); Shokan, Ludlow, Je-Jl (JCT).
- 16396 *A. perminutum* Sm. Mass. to Fla. (Fall).
- 16397 *A. reclusum* Fall. N. J. to D. C. (Fall).
- 16422 *A. patrulele* Sm. Lake Bluff, Sep (NYS); **LI**: Rosedale, in sifting in winter (Nic).
- 16423 *A. walshii* Sm. (*vicinum* Sm.). Newport, May-Je (NYS); Cranberry L., Htly (Buch); Axton, Je (Houghton); Mt. Seward, Je (Houghton); Clinton Hgts., Je (NYS); NYC (AM); **LI**: Rosedale, Je (Nic).

<sup>59</sup> The larvae in this genus roll leaves into compact thimble-shaped masses, on *Corylus*, Je-Jl (Fitch); also on oak, sumac, etc. (Blatch&Lg).

- 16429 **A. turbulentum** Sm. Ithaca (Fall); Schoharie (Not); Peekskill (Fall).  
Lives in seeds of *Meibomia* (B&L).
- 16431 **A. griseum** Sm. Schoharie (Not); Peekskill (Fall); **SI**, Nov, in pods of  
*Phaseolus polystachyus* (L&D). On *Lespedeza* under name of *fraternum*  
(Chitt).
- 16439 **A. porcatum** Boh. Schoharie (Not).
- 16441 **A. rostrum** Say. Buffalo (Z&R); Ithaca (Chitt); Peekskill (B&L); **SI**,  
Je-Oct, on *Baptisia* (L&D).
- 16443 **A. nigrum** Hbst. Albany, Je (NYS); NYC (AM); **SI**, Jl, in seeds of  
*Robinia pseudacacia* (L&D); **LI**: Bellport, Je (Nic); Syosset, Aug  
(NYS).
- 16457 **A. segnipes** Say. **SI**, Sep, in pods of *Tephrosia* (L&D); **LI**: Bellport,  
Je (Nic).
- 16468 **A. decoloratum** Sm. Canandaigua, Oct (NYS). Breeds in seeds of  
*Meibomia* (B&L).
- 16469 **A. emaciipes** Fall. N. H. to Ill. (Fall).
- 16472 **A. carinatum** Sm. "NY" (Fall).
- 16473 **A. attenuatum** Sm. Canada to southern Cal. (Fall).
- 16474 **A. hibisci** Fall. "NY" (Lg). Lives in seeds of *Hibiscus* (Weiss).
- 16480 **A. parallelum** Sm. Mass. to D. C. (Fall).
- 16486 **A. puritanum** Fall. Buffalo (Fall); **SI**, Je, on *Viburnum* (L&D).
- 16488 **A. herculanum** Sm. Genesee Co, Je (Lg); Letchworth Pk., Jl (NYS);  
West Pt. (Robn); Catskills (Nic); Peekskill (B&L); **SI**, on witch-  
hazel (Bischoff).
- 16489 **A. molestus** Fall. Orangeburg, May (Nic).

#### PODAPION Riley

- 16490 **P. gallicola** Rly. Mass. to Cal. (Lg). On pine (B&L).

#### SUBFAMILY TACHYGONINAE

##### TACHYGONUS Schönherr

- 16492 **T. lecontei** Gyll. N. J. to Tex. (Lg).
- 16493 **T. spinipes** Csy. **LI**: Bellport, Je, beating scrub oak (Nic); Yaphank, on  
oak (B&L). *T. tardipes* of the Buffalo list is a western species.

#### SUBFAMILY OTIORHYNCHINAE

##### PHYXELIS Schönherr

- 16499 **P. rigidus** Say (*glomerosus* Boh.). Potsdam, Newport, Deer R., May  
(NYS); Gloversville, Aug (NYS); Albion, Sep (NYS); Lakeside, Or-  
leans Co, Je, Cy (NYS); Buffalo (Z&R); Pike (NYS); Genesee Co,  
Je (Lg); Ithaca, Ap, *Bish* (Dt-NYS); Binghamton, Ap (JCT);  
Windsor, Je (Not); Albany, Sep (NYS); Poughkeepsie, May  
(NYS); West Pt. (Robn); Ft. Montgomery, Jl (Ds); Nyack, Je  
(Ds); Mosholu, Je (Joutel); Ramapo, May (Ds); Carmel, Aug  
(AM); **SI**, Jan-Aug (L&D); **LI**: Flatbush, Je (AM); Forest Pk., Je  
(NYS).

## ANAMETIS Horn

- 16547 **A. granulata** Say. Buffalo (Z&R); Portage, May (B&L); Kenwood, JI (NYS).

## PANSCOPUS Schönherr

- 16576 **P. erinaceus** Say. Buffalo (Pierce); Washington Co, Aug (Sherm); **SI**, JI (L&D); **LI**: Bellport, Aug, Wading R., May (Nic).  
 16578 **P. maculosus** Blatch. Washington Co (B&L); Ft. Montgomery, May (Ds).

## TANYMECUS Germar

- 16596 **T. confertus** Gyll. (*canescens* Gyll.). Buffalo (Z&R); **SI**, Je-JI, in stems of Ambrosia (L&D).

## PANDELETEIUS Schönherr

- 16605 **P. hilaris** Hbst. Buffalo (Z&R); Letchworth Pk., JI (NYS); Genesee Co (Lg); Ithaca, May, Aug (Dt); Albany, Karner, Je (NYS); Nassau L., May (NYS); Lansingburg, Canaan, Je (NYS); West Pt. (Robn); Ludlow, Sep (Lg); Ramapo, May (Lg); Mosholu (AM); **SI**, Je-Aug, abundant on oak (L&D); **LI**: Wading R., Amagansett (Ds).

## POLYDRUSUS Germar

(*Cyphomimus* Horn)

- 16621 **P. americanus** Gyll. (*dorsalis* Horn). Newport, May (NYS); Genesee Co, Je (Lg); Buffalo (Z&R); Portage, May, on beech (B&L); Westfield, May (Not); Westview, JI, Cy (NYS); Ithaca, May (Dt, H); Otsego (Pierce); Schoharie (Not); Delmar, May (NYS); Orangeburg, Ap, very abundant, flying on certain days in spring (Nic).  
 16622 **P. impressifrons** Gyll. THE LEAF WEEVIL. Introduced from Europe, and first found at Geneva and Lyons in 1906. Beetles feed on foliage of willow, poplar, birch, rose, apple, and pear, and are sometimes injurious in nursery plantings. Known only from N. Fair Haven (H); Lyons, Sodus; Castile, *Brad* (Flet); Waterloo, Geneva, Seneca Castle, Rochester, Rochester Jct., Honeoye Falls, Indian Falls, Oak Orchard, Albion, LeRoy, Batavia, and Portage.

## SCYTHROPUS Schönherr

- 16626 **S. elegans** Couper. Wilmington, Je (NYS); Rochester, Je (AM); Forest Lawn, JI (AM); Buffalo (Lg); Ithaca, Ap-JI, on pine (Chitt); Font Grove, Albany Co, Je (NYS); Nassau, Je (NYS); Callicoon, Je (AM).

## HORMORUS Horn

- 16635 **H. undulatus** Uhl. Newport, Je (NYS); Axton (Houghton); Cranberry L., Je (H); Genesee Co, Je (Ds); Ithaca, Je (B&L); Windsor, Je (Not); Albany, Je, Poughkeepsie, May (NYS); West Pt. (Robn); Van Cort. Pk. (Nic); **SI**, Je, Aug (L&D); **LI**: Jamaica (Nic); Flatbush, Je (B&L).



**SCIAPHILUS** Schönherr

- 16640 **S. muricatus** Fab. Syracuse, under decayed hickory twigs (Blkm).

**STROPHOSOMA** Billberg

- 16641 **S. coryli** Fab. **SI**, Mar (L&D); **LI** (B&L).

**EPICAERUS** Schönherr

- 16646 **E. imbricatus** Say. **LI**: Flatbush (B&L).

**PANTOMORUS** Schönherr

(*Aramigus* Horn)

- 16659 **P. fulleri** Horn. FULLER'S ROSE BEETLE. Severance, Je, *Bks* (NYS); Herkimer Co (NYS); Little Falls, Oct, on greenhouse carnations (B&L); Albany, Poughkeepsie (Lint); **SI** (L&D); **LI** (AM).

**BARYNOTUS** Germar

- 16671 **B. schönherri** Zett. "NY" (Fitch).

**BARYPEITHES** Jacquelin-Duval

- 16672 **B. pellucidus** Boh. Syracuse, May (H, Blkm); Rochester, Je (NYS); Kendall, May (NYS); Genesee Co, Je (Lg); Batavia, Je (B&L); Lakeside, Je, Cy (NYS); Letchworth Pk., Jl (NYS); Portage, Je (Ds); Geneva, Je (NYS); Ithaca, May, *Bks* (Dt); DeRuyter L., Jl (NYS); Albany, Voorheesville, Je, *Leon* (NYS); Van Cort. Pk. (AM); **SI** (div.); **LI**: Amityville, Astoria, May (Bt); Cold Sp. Harb., Je (Ds); Bellport, Je (Nic).

**AGRAPHUS** Say

- 16675 **A. bellicus** Say. **SI**: Tottenville, Je (NYS); **LI**: Rockaway, Babylon, Je-Sep (B&L).

**BRACHYRHINUS** Latreille

(*Otiorhynchus* Germar)

- 16677 **B. sulcatus** Fab. BLACK VINE WEEVIL. Buffalo, Feb (NYS); Westfield, Aug (NYS); Ithaca, Mar, Sep (Dt); Albany, Mar (NYS); Hudson, Aug (Lg); Olivera, Oct (NYS); Middle Hope, Jl (CU Econ); Peekskill, Ap (Hubbard&Schwarz); Nyack, Sep (Lg); Van Cort. Pk. (AM); **SI**, Jl, Nov (L&D); **LI**: Greenport, Aug, Flushing, Jan-Dec (Ds); Westbury, larvae injurious to yew; Central Pk. (Southwick); Orient Pt., May (NYS). Larvae sometimes injurious to yew hedges.
- 16678 **B. ovatus** L. (*ligneus* Horn). STRAWBERRY CROWN-GIRDLER. Potsdam (NYS); Keene Val., Jl (NYS); Severance, Jl, *Bks*, Wells, Jl (NYS); New Russia, Ap (NYS); Mooers, Sep (Not); Newport, May (NYS); Lyons Falls, Jl (NYS); Long L. (Ds); Hastings (NYS); Clyde, Sep, *Bish* (NYS); Kendall, May (NYS); Niagara (Lg); Wyoming, May,

infesting house (Lint); Chautauqua (Lg); Castile, *Brad* (Flet); Ithaca, McLean, Ringwood, Je-Nov (Dt); Ilion (NYS); L. George (AM); Appalachin, May (NYS); Nassau, Mar (NYS); Karner, Aug (NYS); Millerton, May (NYS); Carmel, Aug (AM); Huguenot, Jl (Zab); West Pt. (Robn); Peekskill (NYS); Mosholu, Je (Lg); Van Cort. Pk. (AM); **SI**, Jl-Aug (L&D); **LI**: Moriches (NYS); Orient Pt., Sep (NYS). Often injurious to strawberries.

- 16679 **B. rugifrons** Gyll. Genesee Co, Je (Lg); Letchworth Pk., Jl (NYS); Portage, Ap-Aug (B&L); McLean, Mar, Aug-Sep (Dt); Westfield, May (Not); Ithaca, Ap-Aug (B&L); Enfield Glen, Aug (NYS); Hubbardsville, Sep, *Leon*, injuring strawberries (CU Econ, NYS); Woodland, Aug (NYS); Ulster Co, general (CU Econ). Larvae sometimes injurious to strawberries.

#### CERCOPEUS Schönherr

- 16692 **C. chrysorhoeus** Say. **SI** (AM).

#### CHAETECHUS Horn

- 16694 **C. setiger** Horn. Barnerville, Aug (NYS).

#### TRACHYPHLOEUS Germar

- 16697 **T. davisi** Blatch. **SI**, type locality, on seashore, Ap (Ds).

#### GEODERCES Horn

- 16708 **G. melanothrix** Kby. Wilmington Notch, Aug, Cy (NYS).

#### APHRASTUS Say

- 16721 **A. taeniatus** Gyll. Hastings, Jl (Lg); Albany, Je, Slingerlands, Jl (NYS); Karner, Jl (Felt); Stony Pt., Je (AM); Mosholu, Je (NYS); Van Cort. Pk. (AM); **SI** (L&D); **LI**: Flatbush (AM); Fishers I. (AM); Orient Pt., Je (NYS).

#### BRACHYSTYLUS Schönherr

- 16724 **B. acutus** Say. "NY" (Lg), on persimmon.

#### PHYLLOBIUS Germar

- 16726 **P. glaucus** Scop. "NY", Aug.

—— **P. oblongus** L. THE EUROPEAN SNOUT BEETLE. Found in 1923 in considerable numbers injuring elms at Rochester, this being the first record of its occurrence in this country (Leon).

#### SUBFAMILY CURCULIONINAE

##### SITONA Germar

- 16727 **S. flavescens** Marsh. Newport, May-Je (NYS); Saranac Inn, Aug, Gloversville, Mar (NYS); Sodus Pt., Aug (NYS); Buffalo (Z&R); Westfield, Jl (NYS); Castile, May, *Brad* (Flet); Penn Yan, May, Cy

- (NYS); Ithaca, J1 (NYS); Juanita I., L. George, Sep, *Leon* (NYS); Voorheesville, Aug, *Leon* (NYS); Poughkeepsie, May (NYS); West Pt. (Robn); NYC, Je (Ds); **SI**, Je, Sep, on clover roots (L&D); **LI**: Riverhead, Sep, Jamaica, Je (NYS).
- 16728 **S. hispidulus** Fab. CLOVER-ROOT CURCULIO. Cranberry L., J1 (H); Westfield, May (Not); Syracuse, Ap-May (H); Conesus L., Aug (Ds); Ithaca, Spencer, Ringwood, McLean, Je-Nov (Dt); L. George, J1 (AM); Schoharie (Not); New Baltimore (AM); West Pt. (Robn); Nyack, Tomkins Cove (AM); **SI**, Ap-Dec, on clover roots (L&D); **LI**: Coney I., on beach (Linell); Flatbush (AM).
- 16738 **S. tibialis** Hbst. Newport (NYS); Buffalo (Z&R); Ithaca, J1 (NYS).

## LEPIDOPHORUS Kirby

- 16752 **L. setiger** Ham. Letchworth Pk., J1 (NYS).

## HYPERA Germar

- 16754 **H. punctata** Fab. CLOVER-LEAF WEEVIL. Mooers, Sep (Not); Cranberry L., J1 (H); Westfield, May (Not); White L. (AM); Forest Lawn (AM); Castile, Ap, *Brad* (Flet); Pike, May (NYS); Chautauqua (Lg); Canandaigua, J1 (NYS); Ithaca (Lg); McLean, Mar-Sep (Dt); Freeville, Aug, in beating spruce and heather; Albany, J1, Karner, Aug, Delmar, May, Phoenicia, Aug (NYS); West Pt. (Robn); Big I. (AM); Nyack, Sep (Brownell); **SI**, Je-Sep, feeds on clover; **LI**: Long Beach (AM); Rockaway, J1, Flatbush, Babylon, Fishers I. (AM). Thirty-eight more references (CU), four more (Ds).

## PHYTONOMUS Schönherr

- 16755 **P. eximius** Lec. **LI**: Aqueduct Station, Brooklyn, May 16, 1925, on leaves of mullein, *Nic*, *Mason*, *Quirs* (Nic).
- 16757 **P. comptus** Say. Pulaski, Je (Ds); Buffalo (Z&R); West Pt., Ap (Robn); Ft. Montgomery, May-J1 (Ds); Ramapo, May-J1 (Ds); **SI**, Ap-May, feeds on Polygonum in wet places (L&D); **LI**: Flatbush, J1 (AM).
- 16764 **P. meles** Fab. CLOVER-HEAD WEEVIL. Franklinton, Je, *Leon* (NYS); Ithaca, Je (NYS); Windsor, Je (Not); Albany (CU); Schoharie (Not); New Baltimore (Felt); West Pt., Ap (Robn); Orangeburg, Je (Nic); Port Chester, J1 (NYS); White Plains (CU); Van Cort. Pk. (AM); **SI**, Je (L&D); **LI**: Brooklyn (Lg); Rockaway Beach, May (Ds); Rosedale, Bellport, Je (Nic); Yaphank, Half Way Hollow Hills, May, J1 (Ds).
- 16765 **P. nigrirostris** Fab. LESSER CLOVER-LEAF WEEVIL. Axton (Houghton); Newport, May-Je (NYS); Bolton, Aug (JCT); Syracuse, Ap, flying (H); Westfield, May (Not); Ithaca (Detwiler); Ringwood, Ap-J1 (Dt); Windsor, Je (Not); Schoharie (Not); Albany, Je, Karner, Je, Clinton Hgts., Mar (NYS); West Pt. (Robn); Huguenot (AM); Van Cort. Pk. (AM); **SI**, Ap-Je, feeds on clover (L&D); **LI**: Babylon, Flatbush (AM); Rockaway (Nic). Twenty-two more records (CU). five more (Ds).

## LEPYRUS Germar

- 16767 *L. palustris* Scop. (*geminatus* Say). Cranberry L., Je-Jl, beaten from birch and willow (H); Genesee Co, Je (Lg); Batavia, Jl (B&L); Buffalo (Z&R).

## LISTRONOTUS Jekel

- 16772 *L. obliquus* Lec. Barren I., Jl (AM).  
 16773 *L. sordidus* Gyll. Buffalo (Z&R); Van Cort. Pk. (AM); **SI**, Aug, on sub-aquatic plants (L&D).  
 16774 *L. tuberosus* Lec. Ithaca, Ap (B&L); Orangeburg, May (Nic).  
 16775 *L. squamiger* Say. Buffalo (Say).  
 16776 *L. callosus* Lec. "NY" (Lec).  
 16778 *L. inaequalipennis* Boh. Buffalo (Z&R); West Pt. (Robn); **SI**, May (L&D); **LI**: Rockaway Beach, Je (Shoe).  
 16779 *L. caudatus* Say. Buffalo (Z&R); Ithaca, Je (Lg); Albany, Sep (NYS); **LI**: Rosedale, Ap, Rockaway, Aug (Nic).  
 16783 *L. appendiculatus* Boh. N. Fair Haven, Aug (NYS); Buffalo (Z&R); Peekskill (Lg); Van Cort. Pk. (Nic); **SI**, May-Aug (Woodr).  
 16786 *L. frontalis* Lec. "NY" (Lec).  
 16790 *L. latiusculus* Boh. PARSLEY STALK-WEEVIL. Ithaca, Je (B&L); Charlotte (AM); Nyack, Je (Ds); **SI**, Jl, on Sagittaria (L&D); **LI**: Valley Stream, Astoria, Suffolk Co, Jl, infesting carrots and arrowhead (CU); Babylon (AM); Rockaway, Je (Nic).

## HYPERODES Jekel

(*Macrops* Kirby)

- 16801 *H. solutus* Boh. Buffalo (Z&R); Ithaca, Jl (Lg); **SI**, Aug, on arrow arum (L&D).  
 16803 *H. indistinctus* Dietz. **SI**, Aug, on Sagittaria (Woodr); **LI**: Jamaica (Sirrinc).  
 16819 *H. delumbis* Gyll. Buffalo (Z&R).  
 16821 *H. sparsus* Say. Axton (Houghton); Buffalo (Z&R); Monroe Co, May (H); Westfield, May (Not); Ithaca, Je (NYS); Windsor, Je (Not); New Baltimore (AM); Catskills (Nic); West Pt. (Robn); **LI**: Flat-bush, May (AM); Jamaica (Nic).  
 16823 *H. rotundicollis* Dietz. Westfield, May (Not).  
 16824 *H. obscurellus* Dietz. Westfield, May (Not); Ithaca, Jan (Dt); **LI**: Brooklyn (B&L).  
 16826 *H. imbellis* Dietz. Ithaca, Aug (Chitt).  
 16835 *H. humilis* Gyll. Axton (Houghton); Batavia, May (B&L); Westfield, May (Not); West Pt. (Lg).

## PISSODES Germar

- 16840 *P. similis* Hopk. Wallface Mt., Jl (Nic).  
 16845 *P. strobi* Peck. WHITE-PINE WEEVIL. Undoubtedly present wherever white pine grows in the State. Representative localities are: Wells, Je, Harrisville, Jan (NYS); Cranberry L., Jl (H); Genesee Co, Je; Buf-

- falo (Z&R); Ithaca (Lg); Albany, May, Salem, Ap, N. Chatham, May, Broadalbin, Ap (NYS); Poughkeepsie, Je (NYS); Slide Mt., Jl (Lg); New Baltimore (Hopk); West Pt. (Robn); Kiamesha (Hopk); Rhinebeck, Oct (NYS); **SI**, Jl (L&D); **LI**: Central Pk. (Eng).
- 16846 **P. approximatus** Hopk. Wallface Mt., Jl (Nic); near NYC (Hopk). On pine (B&L).
- 16858 **P. nigrae** Hopk. Wallface Mt., Jl (Nic). On black spruce (B&L).
- 16866 **P. dubius** Rand. Big Moose, on spruce (Felt); Saranac Inn, Jan (NYS); Cranberry L., Je-Jl, common in 'dying balsam (H); Old Forge, Je (NYS).
- 16868 **P. affinis** Rand. Wells, Jl (NYS); Buffalo (Z&R); Genesee Co, Je (Lg); Ithaca, May, on white pine (B&L, Chitt); Bath-on-Hudson, Jl (Felt); Callicoon (AM); West Pt. (Robn).

## PACHYLOBIUS LeConte

- 16872 **P. picivorus** Germ. (*stupidus* Boh.). Buffalo (Z&R); southern NY (Fitch); **LI**: Yaphank, May-Sep, on pine (B&L).

## HYLOBIUS Germar

- 16873 **H. pales** Boh. THE PALES WEEVIL. Severance, Jl, Wells, Je-Jl, Sep, Saranac Inn, Je (NYS); Old Forge, Je (NYS); Buffalo (Z&R); Ithaca (Lg); Ringwood, Je-Jl (Dt); Karner, Oct (NYS); New Baltimore (AM); West Pt. (Robn); **SI**, Ap, Sep, on pine (L&D); **LI**: Central Pk. (Eng); May-Sep (Ds).
- 16874 **H. confusus** Kby. Axton (Houghton); Cranberry L., Je-Jl (H); Saranac Inn, Jl (NYS); Buffalo (Kby); Albany, Je (NYS).

## HYPOMOLYX LeConte

- 16879 **H. piceus** DeG. (*pinicola* Couper). Windsor, Je (Not); Mt. Whiteface, Sep, Je (Lg); Wallface Mt., Jl, crawling in deep dark woods and under bark at high elevations only (Nic); Mt. Marcy, Oct (B&L); NYC, Je-Jl (B&L).

## EUDOCIMINUS Leng

- 16880 **E. mannerheimi** Boh. "NY" (Chitt).

## EUCLYPTUS Dietz

- 16883 **E. testaceus** Dietz. Buffalo, type locality (Dietz).

## DORYTOMUS Germar

- 16893 **D. mucidus** Say. Buffalo (Z&R).
- 16894 **D. laticollis** Lec. Keene Val., Je (NYS); Cranberry L., Je (H); Buffalo (Z&R); Callicoon (AM); West Pt. (Robn); near NYC, on poplar; **LI**: Rockaway Beach, wash-up, Je (B&L).



- 16897 **D. parvicollis** Csy. Ithaca, Jl, Oct, Cy (NYS); Karner, under loose bark of poplar, May (Felt); Pomona, Ap (NYS); **SI**, on willow and aspen (L&D).
- 16909 **D. indifferens** Csy. "NY" (B&L).
- 16910 **D. vagenotatus** Csy. Karner (Felt); Albany, Ap (NYS); **LI**: Long Beach, Je 7 (Nic).
- 16913 **D. fusciceps** Csy. Buffalo (Z&R); Callicoon (AM); West Pt. (Robn); Mosholu (AM); NYC, Mar-Nov, on pussy willow (B&L); **LI**: Central Pk., Ap (Eng).
- 16914 **D. brevicollis** Lec. Cranberry L., *Hily* (Buch); Ithaca, May (Dt).

## GRYPIDIUS Schönherr

- 16919 **G. equiseti** Fab. Batavia, Je (B&L); Sport I., Je (B&L); Westfield, May (Not).

## NOTARIS Germar

(*Erycus* Tournier)

- 16922 **N. puncticollis** Lec. Newport, May-Je (NYS); Batavia, May-Je, on arrow arum (B&L); Buffalo (Z&R); Portage, Mar-Je, on arrow arum (B&L); Montour Falls, Je (H); Westfield, May (Not); Ithaca, Aug, Nov (NYS); West Pt. (Robn); Albany, Ap (NYS); NYC, Mar-Apr (B&L); **LI**: Brooklyn, May (Ds); Long Beach, Aug (Lg); Rosedale, May-Je (Nic).

## PACHYPHANES Dietz

(*Barytychius* Jekel, *Pachytychius* LeConte not Jekel)

- 16925 **P. discoideus** Lec. "NY", May-Jl (Chitt, Dietz).
- 16929 **P. lineolatus** Csy. "NY" (?).
- 16931 **P. amoenus** Say. Van Cort. Pk. (AM); **SI**, Aug-Sep (L&D).

## SMICRONYX Schönherr

- 16972 **S. connivens** Csy. Mass. to Mo. (NY?).
- 16973 **S. tychioides** Lec. "NY" (Dietz).
- 16976 **S. sculpticollis** Csy. **LI**: Rosedale, May, sifting sphagnum in swamp (Nic), on dodder galls (B&L).
- 16991 **S. corniculatus** Fahr. **LI**: Jamaica (Nic).

## BRACHYBAMUS Germar

- 17012 **B. electus** Germ. NYC, May-Aug, on palustral plants (B&L); **LI**: Wyandanch, Jl (Ds); Bellport, Je, in salt meadow (Nic).

## ENDALUS Laporte

- 17014 **E. limatulus** Gyll. Buffalo (Z&R); Aurora, Jl (Zab); Stony Pt., Je (Ds); NYC, May-Sep (B&L); **SI**, May (L&D); **LI**: Bellport, Je-Jl, in sweeping salt meadow (Nic).
- 17019 **E. ovalis** Lec. Near NYC, Jl-Aug, on palustral plants (B&L); **SI**, Je (L&D).

## TANYSPHYRUS Germar

- 17021 **T. lemnae** Fab. Old Forge, Je, Speculator, JI (NYS); Ringwood, Je-JI (Dt); Schoharie (Not); Albany, Je (NYS); Orangeburg, May (Nic); West Pt. (Robn); near NYC, on duckweed, May-Je (B&L); SI, May, on duckweed (L&D).

## ONYCHYLIS LeConte

- 17022 **O. nigrirostris** Boh. Buffalo (Z&R); Ramapo (AM); NYC, May-Dec (B&L); SI, May, on arrowhead and pickerel weed (L&D).

## ANCHODEMUS LeConte

- 17025 **A. angustus** Lec. Buffalo (Z&R).

## LISSORHOPTRUS LeConte

- 17029 **L. simplex** Say (*apiculatus* Gyll.). THE RICE WATER WEEVIL. Near NYC, May-JI (B&L); SI, May, on salt meadow, feeds on roots of palustral plants (L&D).

## BAGOUS Germar

- 17030 **B. magister** Lec. West Pt. (Robn).  
 17036 **B. restrictus** Lec. Ithaca, May 5 (B&L).  
 17037 **B. americanus** Lec. Spencer L., Aug (Dt); L. George (Buchanan-US. Biol. Surv.).  
 17039 **B. mammillatus** Say. Windsor, Je (Not).  
 17042 **B. planatus** Lec. "NY", one of LeConte's type localities.  
 17043 **B. obliquus** Lec. Newport (NYS); Fulton Co (B&L).

## PROCTORUS LeConte

- 17057 **P. decipiens** Lec. Cranberry L., Je, beaten from willow (H); Catskills (Nic-AM).

## THYSANOCNEMIS LeConte

- 17058 **T. fraxini** Lec. Buffalo (Z&R); Ithaca, Je, in seeds of ash (B&L); West Pt., Je (B&L); LI: Rockaway, Aug (Nic); Long Beach, Aug (Lg).  
 17060 **T. bischoffi** Blatch. Batavia, Je (Kngt); commonly confused with *fraxini* (B&L).  
 17062 **T. ocularis** Csy. Menands, JI (NYS).

## PLOCETES LeConte

- 17068 **P. ulmi** Lec. Batavia, Je (B&L); West Pt., Je (B&L); LI: Rosedale, Je (Nic).

## TYCHIVS Germar

- 17074 **T. picirostris** Fab. (*griseus* Sf.). THE CLOVER-SEED WEEVIL. Plattsburg, JI (Ds); Newport, May-Je (NYS); Wells, JI (NYS); Speculator (Felt); Mooers, Sep (Not); L. Champlain (Felt); Gouverneur

(Felt); Waterville (B&L); Oswego (Felt); Rochester, May (CU Econ); Batavia (B&L); West Pt., May (Not); Ithaca, Ap-Jl, in red clover (B&L, Detwiler); McLean (B&L); Windsor, Je (Not); Schoharie (Not); Corinth, May (NYS); Albany, May, Jl (NYS); New Baltimore, May (Felt); Orangeburg, May (Nic); Mosholu, Je (NYS).

OTIDOCEPHALUS Chevrolat <sup>59a</sup>

- 17118 *O. myrmex* Hbst. (*americanus* Chev.). Newport, May-Je (NYS); Rochester (M&W); Buffalo (Z&R); Nassau, Je (NYS); Poughkeepsie, Je (NYS); West Pt. (Robn); **SI**, Je-Jl, on oak (L&D); **LI**: Jamaica (Nic).
- 17121 *O. chevrolati* Horn. Cranberry L., *Htly* (Buch); Rochester (M&W); Buffalo (Z&R); Schoharie (Not); Nyack, Je-Jl (Ds); **SI** (L&D); **LI**: Yaphank, Je-Jl (Ds); Bellport, Jl (Nic).
- 17123 *O. scrobicollis* Boh. Buffalo (Z&R); West Pt. (Robn); **LI**: Yaphank, Jl (Ds, B&L).
- 17125 *O. laevicollis* Horn. Genesee Co, Je (Lg); Buffalo (Horn); Bear Mt., Jl (Nic); Ft. Montgomery, Jl (Ds); Nyack, Je; Rockland Co, Je (Joutel); **SI** (L&D).

## MAGDALIS Germar

- 17129 *M. barbicornis* Latr. Newport, Jl (NYS); Lockport, Jl (NYS); Genesee Co, Je (Lg); Rensselaer, May (NYS); **SI**, Je, on elm (L&D); **LI** (Fall).
- 17133 *M. perforata* Horn. Karner, Je-Jl, on pine (Felt); Lansingburg, Dec (NYS); **SI**, on pine (L&D); **LI**: Bellport, Je-Aug (Nic); Yaphank, Jl (Ds).
- 17136 *M. austera* Fall. Wallface Mt., Jl (Nic); **SI**, Jl, on pine (L&D). (*M. lecontei* records probably belong here.)
- 17136a *M. austera* var. *substriga* Fall. Wallface Mt., Jl (Nic); Peekskill (B&L); West Pt., on pine (Robn); Bear Mt., Jl (Nic); **LI**: Bellport, Je (Nic).
- 17141 *M. alutacea* Lec. Cranberry L., *Htly* (Buch); Ithaca, Jl (NYS); Karner, Je-Jl (Felt).
- 17146 *M. olyra* Hbst. Syracuse, on hickory (Blkm); Buffalo (Z&R); Ithaca, May (Lg); Ilion, Je, on hickory (Felt); **SI**, May, on hickory (Chitt); **LI**: Wading R., May (Nic).
- 17147 *M. pandura* Say. Newport, May-Je (NYS); Syracuse, on hickory (Blkm); Catskills (Nic); Poughkeepsie, Jl (NYS); Nyack, Je (Ds); **SI**, Je, on elm, oak, walnut, etc. (L&D).
- 17148 *M. inconspicua* Horn. Buffalo (Rein); West Pt., Je, on butternut (Robn); Westchester Co, Je (Lg); Congers, Jl (Lg).
- 17149 *M. salicis* Horn. Wells, May (NYS); Buffalo (Z&R); Ithaca, Jl (Ham).
- 17150 *M. barbata* Say. Newport, May-Je (NYS); Buffalo (Z&R); Ithaca, May (NYS); Albany, May-Je; Lansingburg, May (NYS); W. Nyack, Je.
- 17151 *M. armicollis* Say. Newport (NYS); Oswego, Je, *Leon* (NYS); Buffalo (Z&R); Castile, *Brad* (Flet); Ithaca, Je (NYS); West Pt. (Robn); Catskills (Nic); Westchester Co, Je (Lg).
- 17151a *M. armicollis* var. *pallida* Say. Westchester Co, Je (Lg).

<sup>59a</sup>Myrmex Sturm replaces Otidocephalus, *vide* H. S. Barber.

## BALANINUS Germar

- 17155 **B. proboscideus** Fab. (*caryatrypes* Boh.). THE LARGE CHESTNUT WEEVIL. Glenmont, Sep (NYS); Albany, Oct, larva in chestnut (Fernow); Van Cort. Pk. (Nic); **SI**, nearly extinct, owing to death of trees (L&D); **LI**: Rockaway; Kings Pk., Sep (Ds).
- 17156 **B. caryae** Horn. THE HICKORY-NUT WEEVIL. Batavia, Sep (B&L); West Pt. (Robn); **SI** (L&D); **LI**: Brooklyn (Horn).
- 17157 **B. rectus** Say (*quercus* Horn). THE ACORN WEEVIL. Rochester (M&W); Buffalo (Z&R); Ithaca, Sep (NYS); Karner, Sep (NYS); West Pt. (Robn); **SI**, Aug-Sep (L&D); **LI**: Brooklyn (Okhurst); Rockaway Beach, Sep (Ds).
- 17158 **B. algonquinus** Csy. THE SMALLER CHESTNUT WEEVIL. Perry, Jl (H); West Pt. (Robn); possibly extinct on **SI** (L&D).
- 17159 **B. nasicus** Say. Rochester (M&W); Buffalo (Z&R); Ithaca, Ap (Dt); Karner, Je (Felt); West Pt. (Robn); Huguenot (AM); **SI**, Je-Aug, on oak (L&D); **LI**: Long Beach (AM); Rockaway, Je-Aug (Nic).
- 17160 **B. pardalis** Chitt. West Pt. (Robn).
- 17161 **B. confusor** Ham. Batavia, Jl (B&L); West Pt., Je (Ds); Van Cort. Pk., Je-Sep (AM); **LI**: Riverhead, Aug (Ds); Central Pk., Je, on *Quercus minor* (Ds); Babylon, Rockaway (AM).
- 17162 **B. baculi** Chitt. (*uniformis* auct. not Lec.). Buffalo (Lec); Ithaca, on *Quercus alba* (Chitt); Albany, Jl (NYS); Poughkeepsie, Jl (NYS); **SI**, Sep, on oak (L&D); **LI**: Rockaway Beach, Sep, Central Pk. (Ds).
- 17164 **B. obtusus** Blanch. Taughannock Gorge, Aug (Ham); **LI**: Rockaway, Aug (Nic).
- 17170 **B. strictus** Csy. Bear Mt., Jl, *Nic* (Chitt, with query).
- **B. auctus** Csy. Buffalo, a single male (Csy).

## TACHYPTERELLUS Fall and Cockerell

- 17186 **T. quadrigibbus** Say. THE APPLE CURCULIO. Genesee Co, Je (Lg); Buffalo (Z&R); Pike, Jl (NYS); Ithaca, May, Aug (Dt); McLean, May, *Bish* (NYS); West Pt. (Robn); **SI**, May-Je, on shadbush, thorn, and fruit trees (L&D); **LI**: Bellport, Je (Nic).

## ANTHONOMUS Germar

- 17189 **A. scutellaris** Lec. THE PLUM GOUGER. Rochester (M&W); Karner, May (NYS); **SI**, May, on beach plum (L&D); **LI**: Yaphank, Je (Nic).
- 17194 **A. pusillus** Lec. "NY" (B&L); Peekskill (Sherm), as *A. hamiltoni* Dietz.
- 17202 **A. profundus** Lec. Cranberry L., Je (H); Ringwood, May (Dt); **SI**, Je, on *Crataegus Crus-galli* (L&D); **LI**: Massapequa, May, *Shoe* (Lg).
- 17203 **A. rubidus** Lec. Rochester (M&W); Buffalo (Z&R).
- 17204 **A. nebulosus** Lec. Batavia, May-Jl, found on flowers of *Crataegus* (B&L); Portage (B&L); Ithaca, Jl (H); Ringwood, May (Dt).
- 17210 **A. rufipennis** Lec. Windsor, Je (Not); **LI**: Rosedale, Je 3 (Nic).
- 17212 **A. haematopus** Boh. (*sycophanta* Walsh). Cranberry L., Aug, on willow (H); Newport, May-Je (NYS); Buffalo (Z&R); Letchworth Pk., Je (NYS); Rock City, Je, on laurel (Ds); Danby, Freeville, Ithaca, Mar, Je-Jl (Dt); Windsor, Je (Not); Scotia, Je (NYS); Remsen, Je (NYS); Valley Falls, May (NYS); Albany, Je (NYS); W. Albany (Lint); **LI**: Jamaica (Nic).

- 17213 *A. suturalis* Lec. Rochester (M&W); Buffalo (Z&R); Ithaca, May (Dt); West Pt. (Robn); Ramapo, Je (Ds); Orangeburg, May (Nic); West Farms (Lg); near NYC (B&L); **LI**: Yaphank, Je (Ds).
- 17214 *A. flavicornis* Boh. Near NYC (B&L).
- 17217 *A. corvulus* Lec. Axton (Houghton); Newport (NYS); Ithaca, May (Chitt); McLean, May (Dt); N. Chatham, Nassau, Je (NYS); near NYC (B&L); **SI**, on dogwood, Prunus, Viburnum (L&D).
- 17218 *A. subguttatus* Dietz. "NY" (Julich).
- 17219 *A. signatus* Say. THE STRAWBERRY WEEVIL. Axton (Houghton); Newport, May (NYS); Cranberry L., Je-Jl, beaten from Rubus (H); Mt. Whiteface, Sep (Lg); Montour Falls, Je (H); Ithaca, Ringwood, May-Je (Dt); Ilion, May (NYS); Trenton Falls, Je (NYS); S. Bethlehem, May (NYS); Poughkeepsie, Jl (NYS); Red Hook, Je, *Leon* (NYS); Mosholu, Oct (NYS); **SI**, injurious in 1884 and 1885 (Chitt); **LI**: Bellport, Je (Nic); Forest Pk., Je (NYS).
- 17221 *A. consimilis* Dietz. Windsor, Je (Not).
- 17224 *A. musculus* Say. Cranberry L., Je (H); Newport, May-Je (NYS); Buffalo (Z&R); Windsor, Je (Not); Albany, Je (NYS); Orangeburg, May, the most common species in sifting (Nic); **SI**, on strawberry (Rly); **LI**: Wyandanch, Ap (Nic).
- 17231 *A. interstitialis* Dietz. Wallface Mt., Jl (Nic).
- 17236 *A. nigrinus* Boh. **SI**, on horse nettle (L&D).
- 17245 *A. scutellatus* Gyll. Genesee Co., Je (Lg); Batavia, Je (B&L); Ithaca (Chitt); West Pt. (Robn); **SI**, Je-Aug (L&D).
- 17247 *A. orchestoides* Dietz. Newport, May-Je (NYS); L. Clear, Je (NYS); N. Chatham, Je (NYS); Poughkeepsie, Je (NYS).
- 17250 *A. ater* Lec. Hamburg, Aug (NYS).
- 17258 *A. rufipes* Lec. Batavia, Jl-Aug (B&L).
- 17259 *A. disjunctus* Lec. Charlotte, Je (AM); Peekskill (Sherm); **LI**: Montauk, Sep (Ds).
- 17267 *A. subfasciatus* Lec. "NY" (Lec).
- 17268 *A. robustulus* Lec. (*moleculus* Csy.). Portage, May-Jl (B&L); Windsor, Je (Not); Juanita I., L. George, Jl (NYS); Sandy Hill (B&L).
- 17269 *A. robinsoni* Blatch. Batavia, Je (B&L); West Pt., Ap (B&L).
- 17270 *A. ungularis* Lec. "NY" (Lg Cat.).
- 17273 *A. nubilus* Lec. Cranberry L., Je-Jl, beaten from Rubus (H); Wallface Mt., Jl (Nic); Woodworth's L., Jl (NYS); New Lebanon, Jl (Frost).
- 17290 *A. elongatus* Lec. Canastota (B&L); Peekskill (Lg); Orangeburg, May (Nic); Nyack, Je, Westchester Co (Lg).

## PSEUDANTHONOMUS Dietz

- 17299 *P. crataegi* Walsh. Cranberry L., *Htly* (Buch); Wallface Mt., Jl (Nic); Buffalo (Z&R); Westfield, May (Not); L. George, Aug (Zab); Albany, Jl (NYS).
- 17300 *P. validus* Dietz. Ithaca (Chitt); **LI**: Bellport, Je (Nic).
- 17301 *P. hamamelidis* Pierce. Genesee Co., Je (Lg); Conesus L., Je, on witch-hazel (B&L); L. George, Aug (B&L).
- 17303 *P. incipiens* Dietz. Speculator, Jl, Newport, May-Je (NYS); Buffalo (Horn); Ithaca, May-Aug (Dt); Nassau, May (NYS); **SI**, on blueberry and laurel (Bischoff).



## ELLESCHUS Stephens

- 17333 **E. bipunctatus** L. Cranberry L., *Htly* (Buch); Fourth L., Je (NYS).  
 17334 **E. scanicus** Payk. West Pt. (Robn); **LI**: Bellport, Je, in sweeping salt marsh (Nic).  
 17335 **E. ephippiatus** Say. Buffalo (Z&R); Nassau, May, on willow (Felt); **SI**, May-Jl, bred by Walsh from willow galls (L&D).

## ORCHESTES Illiger

- 17337 **O. ephippiatus** Say. Cranberry L., Je-Aug, beaten from Salix (H); Newport, May (NYS); Herkimer Co, May-Je, on willow (Felt); Rochester (M&W); Batavia, May-Sep (B&L); Junius, Je (NYS); Buffalo (Z&R); Ithaca, May (NYS); Freeville, Je (Dt); Schoharie (Not); Rensselaer, May (NYS); Mosholu, Je (NYS); Van Cort. Pk. (Nic); **SI**, on *Salix fragilis* (L&D); **LI**: Jamaica (Nic).  
 17338 **O. salicis** L. Cranberry L., *Htly* (Buch); North Creek, Aug (NYS).  
 17339 **O. niger** Horn. Newport, Labrador Pond, Je (NYS); Wells, Jl (NYS); Cranberry L., Je, on blossoms of Viburnum (H); Herkimer Co, May-Je, on willow (Felt); Rochester (M&W); Woodworth's L., Jl (NYS); Batavia, May-Je (B&L); Buffalo (Z&R); Portage, May-Je (B&L); Ithaca, Freeville, McLean, May-Jl (Dt); Windsor, Je (Not); Rensselaer, May (NYS); Ramapo, Je (Ds); West Pt. (Robn); **SI**, Je (L&D); **LI**: Jamaica (Nic).  
 17343 **O. canus** Horn. Genesee Co, Je (Lg); Katonah (Sherm).  
 17345 **O. pallicornis** Say. APPLE FLEA-WEEVIL. Newport, Speculator, May-Je (NYS); Cranberry L., Je (H); Onondaga, May-Je, injuring apples, Cy (Flet); Wyoming, May, injuring apples, Cy (Flet); Ithaca, McLean, Ringwood, May (Dt); Windsor, Je (Not); Albany, May (NYS); Valley Falls, May (NYS); **LI**: Bellport, Je (Nic).  
 17347 **O. rufipes** Lec. Buffalo (Z&R); Batavia, Jl-Sep (B&L); Chautauqua (JCT); Ithaca, Jl, *Bks* (NYS).

## ACALYPTUS Schönherr

- 17351 **A. carpini** Hbst. **LI**: Jamaica (Nic).

## PRIONOMERUS Schönherr

- 17352 **P. calceatus** Say. Buffalo (Z&R); West Farms (Lg); **SI**, Je-Jl, larvae mining leaves of sassafras and tulip (L&D); **LI**: Jamaica, Je, Mineola, Jl (NYS).

## PIAZORHINUS Schönherr

- 17353 **P. scutellaris** Say. Newport, May-Je (NYS); Cranberry L., Je, *Htly* (Buch, H); Axton (Houghton); Rochester (M&W); Genesee Co (Lg); Buffalo (Z&R); Bear Mt., Jl (Nic); Peekskill (Lg); Nassau, Je (NYS); Ft. Montgomery (Lg); **SI**, May-Je (L&D).  
 17354 **P. pictus** Lec. Buffalo (Z&R); **SI**, Nov, on oak (L&D); **LI**: Bellport, Aug (Nic).

## GYMNETRON Schönherr

- 17359 **G. tetrum** Fab. Cranberry L., Je (H); Chazy L., Je (NYS); Newport, Aug (NYS); Rochester (M&W); Lakeside, Je, Cy (NYS); Buffalo (Z&R); Pike, Je (NYS); Montour Falls, Je (H); Westfield, Je (NYS); Castile, *Brad* (Flet); Penn Yan, Je (NYS); Schuylerville, Je (NYS); Ithaca, Jl (Ham); W. Albany, Karner, Nassau, Je (NYS); Wappingers Falls, Je (NYS); Ludlow (JCT); West Pt. (Robn); **SI**, on mullein, larvae in seed pods (L&D).  
 — **G. tetrum** var. **subrotundatum** Reitter. Dunkirk (Pierce).

## MIARUS Stephens

- 17360 **M. hispidulus** Lec. Carmel, Aug (AM).

## CLEONUS Schönherr

- 17376 **C. plumbeus** Lec. Gloversville, Ap, Aug (NYS); Mosholu (Sf).  
 17389 **C. calandroides** Rand. **LI**: Wading R., breeds on stems of the sea rocket (B&L).

## LIXUS Fabricius

- 17405 **L. rubellus** Rand. N. Fair Haven, Danby, McLean, May-Jl (Dt); Watervliet Reservoir, Aug, *Leon* (NYS).  
 17407 **L. lupinus** Blatch. Karner, May (NYS).  
 17414 **L. marginatus** Say. "NY".  
 17415 **L. musculus** Say. Ithaca (Lg); **SI**, May-Je, bred from *Polygonum amphibium* by Kellicott (L&D).  
 17418 **L. concavus** Say. THE RHUBARB CURCULIO. Syracuse, May, Schuyler Co, Je (H); Ithaca, Je (Lg); Albany, Kenwood, Je (NYS); Slingerlands, Jl (NYS); Coeymans (*SmEB*); Nassau, Je, Marlboro, May, Kingston, Mar (NYS); West Pt. (Robn); Florida, May (Hain); **SI**, May-Je, on stalks of dock and rye, Sep (L&D); **LI**, Jl (Lg); Orient, Jl (NYS).  
 — **L. crassulus** Not. Schoharie (Not), type.  
 17439 **L. terminalis** Lec. West Farms (B&L); Bronxville (B&L); **LI** (Csy).

## LAEMOSACCUS Schönherr

- 17443 **L. plagiatus** Fab. Rochester (M&W); Genesee Co, Je (L&D); Buffalo (Z&R); Ft. Montgomery, Jl (Ds); Bronx, *Nic* (Joutel); **SI**, Je-Jl, also hatched from oak gall, *Callirhytis cornigera*, in Mar (L&D); **LI**: Flatbush, Je-Jl (Zab); Half Way Hollow Hills, Jl (Ds).

## BARIS Germar

- **B. fultoni** Csy. West Pt. (Csy).  
 17447 **B. umbilicata** Lec. Huguenot, L. George (AM); West Pt. (Robn); **SI**, Jl-Aug (L&D); **LI**: (Csy); Brooklyn (*Nic*).  
 17454 **B. callida** Csy. (*strenua* Lec. of Buffalo list). Rochester (M&W); **SI**, Sep, in stems of *Xanthium* (L&D); **LI**: Rockaway, May (Ds).

- 17458 *B. tumescens* Lec. "NY" (Lec, B&L).  
 17462 *B. subaenea* Lec. Van Cort. Pk. (Nic); **LI**: Jamaica, Bellport (Nic).  
 17468 *B. interstitialis* Say. Schuylerville, Schenectady, J1 (NYS); W. Albany, J1, Karner, Je (NYS); Kenwood, J1 (NYS); West Pt., May (B&L); Mosholu, Je (NYS).  
 17475 *B. dolosa* Csy. **LI** (Csy).  
 17489 *B. confinis* Lec. Ithaca, May-Je (Dt); **LI**: Long Beach (AM).  
 17497 ?*B. aerea* Boh. West Pt. (Robn).  
 17505 *B. scolopacea* Germ. Ithaca, J1, *Ndm* (Flet-CU); **SI**, J1 (L&D); **LI**: Rockaway Beach, Je (Eng); Huntington (AM); Brooklyn, J1 (Nic).  
 . An introduced species.

#### ONYCHOBARIS LeConte

- 17539 *O. pectorosa* Lec. (*subtonsa* Lec.). West Pt. (Robn).

#### MADARELLUS Casey

- 17542 *M. undulatus* Say. Rochester (M&W); Forest Lawn, Sep (Zab); Buffalo (Z&R); Ithaca (B&L); Nassau, May (NYS); Catskills (Nic); West Pt. (Ds); Ludlow (JCT); Van Cort. Pk., Sep (NYS); **SI**, Aug-Sep, breeds in woodbine (L&D); **LI**: E. Greenbush, May (NYS); Yaphank, Oct, Greenport (Ds); Amagansett, Sep (Ds); Shelter I. (Ds).  
 — *M. inconstans* Csy. "NY" (Csy).

#### AULOBARIS LeConte

- 17546 *A. pusilla* Lec. Mooers, Sep (Not); West Pt. (Robn).

#### AMPELOGLYPTER LeConte

- 17550 *A. ater* Lec. West Pt. (Robn).

#### PSEUDOBARIS LeConte

- 17561 *P. angusta* Lec. Batavia (B&L); West Pt. (Robn); near NYC (AM).  
 17562 *P. nigrina* Say. Newport, May-Je (NYS); Johnstown, Sep (NYS); Buffalo (Z&R); Voorheesville, Aug (NYS); Poughkeepsie, May (NYS); West Pt. (Robn); Mosholu, Oct (NYS); **SI**, Sep (L&D).

#### TRICHOBARIS LeConte

- 17566 *T. trinotata* Say. THE POTATO STALK-BORER. **SI**, Aug, in stem of *Solanum* (L&D).

#### GERAEUS Pascoe

##### (*Centrinus* auct.)

- 17580 *G. picumnus* Hbst. Nassau, Aug (NYS); West Pt. (Robn); Ludlow (JCT); Van Cort. Pk. (AM); **SI**, Je, Sep, in stems of grasses (L&D); **LI**: Forest Pk., Je (NYS).  
 17591 *G. penicellus* Hbst. Mosholu, Sep (NYS).

## ODONTOCORYNUS Schönherr

- *O. fultoni* Csy. "NY" (Csy).  
 — *O. semiruber* Csy. "NY" (Csy).  
 17597 *O. scutellum-album* Say. Newport, May-Je (NYS); Rochester (M&W); Buffalo (Z&R); Point Breeze, Je (NYS); Schenectady, Jl, Karner, Aug, Albany, Jl, Poughkeepsie, Je (NYS); Catskills, Jl (Blkm); Peekskill (Sherm); Bolton (JCT); West Pt. (Robn); Van Cort. Pk., Aug (NYS); **SI**, Je, Aug (L&D).  
 — *O. subabruptus* Csy. **LI** (Csy).  
 — *O. amputatus* Csy. "NY" (Csy).  
 — *O. parvus* Csy. "NY" (Csy).  
 17599 *O. salebrosus* Csy. Buffalo (Csy); **LI**: Cold Sp. Harb., Je (H).

## CENTRINOPUS Casey

- 17602 *C. alternatus* Csy. Castile, *Brad* (Flet).

## NICENTRUS Casey

- 17608 *N. lecontei* Champ. (*lineicollis* Csy.). Ithaca (Chitt).  
 17609 *N. lineicollis* Boh. Ithaca, Jl (Dt); Karner, Je (NYS).

## CENTRINITES Casey

- 17616 *C. strigicollis* Csy. Ithaca, Je (H).

## LIMNOBARIS Bedel

- *L. fultonica* Csy. "NY" (Buch, Csy).  
 17634 *L. confusa* Boh. "NY" (Csy).  
 17637 *L. confinis* Lec. "NY" (B&L).  
 17646 *L. rectirostris* Lec. Schoharie (Not); **SI**, Je, on sedges (L&D).  
 17648 *L. calva* Lec. **LI** (B&L).

## IDIOSTETHUS Casey

- 17651 *I. tubulatus* Say. **LI**: Jamaica (Nic).  
 — *I. strigosicollis* Csy. "NY" (Csy.)

## STETHOBARIS LeConte

- 17659 *S. ovata* Lec. Ithaca, Jl (NYS).

## ZAGLYPTUS LeConte

- 17662 *Z. sulcatus* Lec. **SI**, Jl (L&D).

## DIORYMERELLUS Champion

- 17694 *D. laevimargo* Champ. Has been introduced into greenhouses on orchids in one or two localities in the State.

## GELUS Casey

- 17699 **G. oculatus** Say. Speculator, Je (NYS); Genesee Co, Je (AM); Buffalo (Z&R); McLean, May (Dt); Nassau, May (NYS); L. George, Aug (AM); Big Ind. Val., Je, *Pears* (NYS); Catskills (Nic); **LI**: Jamaica (Nic).  
 17701 **G. subfasciatus** Lec. "NY" (Guex).

## CYLINDROCOPTURUS Heller

- 17712 **C. binotatus** Lec. Ithaca, Aug (Dt); near NYC (B&L).  
 17719 **C. quercus** Say. Rochester (M&W); Ludlow (JCT); Bronx (Joutel); near NYC (B&L); **SI**, Je-Aug, on oak (L&D).  
 17721 **C. longulus** Lec. **SI**, Jl, on oak (L&D).

## EULECHRIOPS Faust

- 17723 **E. minutus** Lec. Karner, Je; Mosholu, Aug (NYS); **LI**: Forest Pk., Je (NYS).

## ACOPTUS LeConte

- 17726 **A. suturalis** Lec. Newport, May-Je, Wells, Jl (NYS); Cranberry L. (H); Rochester (M&W); Wilmington, Jl (Lg); Genesee Co, Je (Lg); Buffalo (Z&R); Westfield, May (Not); Ithaca, Ringwood, May-Je (Dt); Big Ind. Val., Jl, *Pears* (NYS); West Pt. (Robn); Orangeburg, Ap (Nic); Van Cort. Pk. (Nic); near NYC (B&L); **SI**, May-Jl, on beech, hop hornbeam, and hickory (L&D).

## PSOMUS Casey

- 17727 **P. armatus** Dietz (*politus* Csy.). Schoharie (Not).

## MONONYCHUS Germar

- 17728 **M. vulpeculus** Fab. Rochester (M&W); Point Breeze, Je (NYS); Buffalo (Z&R); Castile, May, *Brad* (Flet); Pike (NYS); Poughkeepsie, May (NYS); Peekskill (Lg); West Pt. (Robn); Bronx Pk (AM); **SI**, May-Je, breeds in seed pods of Iris (L&D); **LI**, Je (Lg).

## CRAPONIUS LeConte

- 17729 **C. inaequalis** Say. GRAPE-SEED CURCULIO. West Pt. (Robn); near NYC (B&L); **SI**, Je (B&L).

## CNEMOGONUS LeConte

- 17730 **C. lecontei** Dietz. Mt. Whiteface, Jl (B&L).

## ACANTHOSCELIS Dietz

- 17735 **A. curtus** Say. L. Placid, Aug (NYS); Newport, May-Je (NYS); Lakeside, Aug, *Cy* (NYS); Buffalo (Z&R); Pike, Je (NYS); near NYC, on Polygonum in swamps, May-Jl (B&L).



- 17736 **A. acephalus** Say. Newport, Je (NYS); Rochester (M&W); Buffalo (Z&R); West Pt., Je (Ds); S. Dover, Jl (Lg); near NYC, May-Sep (B&L); **SI**, on evening primrose (L&D); **LI**: Rockaway, Coney I. (Lg).

## AULEUTES Dietz

- 17743 **A. asper** Lec. Windsor, Je (Not).  
 17744 **A. tenuipes** Lec. West Pt., May (Robn); **LI**: Bellport, Je (Nic).  
 17745 **A. ater** Dietz. Bronx (Joutel); **SI**, Jl (L&D).  
 17751 **A. cruralis** Lec. (related to European *epilobii* Payk.). Wallface Mt., Jl (Nic); Cranberry L. (H).  
 17753 **A. nebulosus** Lec. Axton (Houghton); Newport, Speculator, Aug (NYS); Remsen, Je (NYS); Genesee Co, Je (Lg); West Pt. (Robn); Mosholu, Sep (AM); **SI**, Jl (L&D).

## HYPOCOELIODES Faust

(Orchestomerus Dietz)

- 17755 **H. ulkei** Dietz. NY is type locality.

## ACALLODES LeConte

- 17757 **A. ventricosus** Lec. Orangeburg, May (Nic); near NYC, May-Jl (B&L).  
 17758 **A. lysimachiae** Fall. **LI**: Rosedale, Ap, Je (Nic).

## COELIODES Schönherr

- 17760 **C. flavicaudis** Boh. (*apicalis* Dietz). Newport, May-Je, Johnstown, Sep (NYS); Ithaca (Lg); Schoharie (Not); Nassau, May (CU).

## CEUTORHYNCHUS Germar

- 17762 **C. rapae** Gyll. (*affluentus* Dietz). CABBAGE CURCULIO. Newport (NYS); Rochester (M&W); Buffalo (Z&R); Ithaca (Lg); Albany, Je (NYS); Albany, Je (NYS); Ludlow (Lg); West Farms (Lg); **SI**, on cabbage seed-stalks, hedge mustard, peppergrass, etc. (L&D).  
 17766 **C. quadridens** Panz. (*seriesetosus* Dietz). CABBAGE SEED-STALK WEEVIL. Introduced. Peekskill (AM); **LI**: Cutchogue, bred from seed-stalks of kale (Sirriner); fairly common and often rather injurious in the cabbage-seed-growing sections about Riverhead and Mattituck.  
 17767 **C. marginatus** Payk. Cranberry L. (H); Onondaga Co, May-Je, on herb-  
 age (H); Wallface, Jl (Nic); Genesee Co, Je (Lg); Schuyler Co, May-Je (H); Ithaca, Mar-Jl (B&L); Ringwood, McLean, Jan, May-Je (Dt); Catskills, Ap (Flet); Bear Mt., Jl (Nic).  
 17781 **C. sulcipennis** Lec. **SI** (L&D).  
 17783 **C. cyanipennis** Germ. Johnstown (B&L); Portage, May-Jl, attacking seeds of cruciferous plants (B&L); McLean, May, Je (Flet); Ithaca (div.); Ringwood, May (Dt); Windsor, Je (Not); Sport I. (B&L).  
 17784 **C. bolteri** Dietz (*erysimi* auct. nec Fab.). Buffalo (Z&R); Ithaca, May (B&L).

- 17791 **C. omissus** Fall. Cranberry L., *Htly* (Buch).  
 17797 **C. neglectus** Blatch. Gloversville, Je (NYS); Batavia, Je-Jl (B&L); **SI**, Je-Jl, on Polygonum (L&D).  
 17812 **C. semirufus** Lec. Newport, May (NYS); Buffalo (Dietz); Batavia (B&L); Windsor, Je (Not); Portage, May (B&L); Poughkeepsie, May (NYS); Suffern (AM).  
 17817 **C. septentrionalis** Gyll. Newport, May-Je (NYS); Rochester (M&W); Nassau, Poughkeepsie, May (NYS); West Pt. (Robn); Orangeburg, May (Nic).  
 17818 **C. puberulus** Lec. Newport, May (NYS); Clayville, Je, *Leon* (NYS); Schoharie (Not); Nassau, Poughkeepsie, May (NYS); West Pt. (Robn); Orangeburg, May (Nic).  
 17820 **C. zimmermanni** Gyll. West Pt. (Robn); **LI**: Riverhead, Ap (NYS).  
 ——— **C. punctiger** Sahl. Westfield, May (Not); Windsor, Je (Not); Schoharie (Not).

**DIETZELLA** Champion*(Coelogaster* Schönherr)

- 17822 **D. zimmermanni** Gyll. W. Hebron (Lg); Peekskill, Je (Sherm); Bronx, Je (Joutel); near NYC (AM); **LI**: Flatbush, Je-Jl (Dietz).

**PERIGASTER** Dietz

- 17824 **P. cretura** Hbst. **SI**, Je-Jl, on Ludwigia (L&D); **LI**: Rockaway Beach, Je-Jl, Flatbush (B&L).  
 17825 **P. obscurus** Lec. Ithaca, Je-Sep (Dt).

**PELENOMUS** Thomson

- 17828 **P. sulcicollis** Fahr. Monroe Co, May (H); Ithaca, May, McLean, Jl, E. Schenectady, Jl (NYS); Windsor, Je (Not); Poughkeepsie, Aug (NYS); Shandaken, Je, *Cy* (NYS); Orangeburg (Nic); Westchester Co, May (Lg); Van Cort. Pk. (AM); **SI**, Ap, Jl, on Polygonum (L&D); **LI**: Jamaica (Nic); Rosedale, Je (Nic).  
 17831 **P. griseus** Blatch. Westfield, May (Not).  
 17832 **P. squamosus** Lec. Rochester (M&W); Ithaca (Lg); **LI**: Rockaway, May (Ds).

**RHINONCUS** Schönherr

- 17841 **R. pericarpus** Fab. Ithaca, Je (NYS); Van Cort. Pk. (Nic); **SI**, Je, on Saponaria (L&D).  
 17842 **R. pyrrhopus** Boh. Axton (Houghton); Speculator, Je, Newport, May, Wells, Jl, Old Forge, Jl (NYS); Mt. Whiteface (Lg); Wallface Mt., Jl (Nic); Syracuse (H); Cranberry L. (H); Buffalo (Z&R); Pike, Je (NYS); Ithaca, Jl (Lg); McLean, May-Aug (Dt); Windsor, Je (Not); Schoharie (Not); Albany, May, Karner, Jl, Phoenicia, Aug, Corinth, Je, Cooperstown, May (NYS); Callicoon (AM); W. Hebron (Lg); Rockland Co (Lg); Ramapo (Ds); Ludlow (Lg); **SI**, Je-Jl, common on Rumex (L&D); **LI**: Rockaway, Jl, Sep (Ds); Yaphank (Ds); Aqueduct, Oct (Ds).  
 17843 **R. longulus** Lec. Ithaca, Je (B&L); Van Cort. Pk. (Nic).

## AMALUS Schönherr

- *A. haemorrhous* Hbst. Syracuse, *H* (L.L.Buchanan). European; this is the first U. S. record.

## PHYRDENUS LeConte

- 17848 *P. divergens* Germ. (*undatus* Lec.). "NY" (Csy).

## CONOTRACHELUS Schönherr

- 17851 *C. nenuphar* Hbst. PLUM CURCULIO. Widely distributed and abundant in the State. Newport, Je (NYS); Onondaga Co, flying (H); E. Palmyra (Lint); Rochester (M&W); Monroe Co (Lint); Genesee Co, Je (Lg); Buffalo (Z&R); Pike (NYS); Westfield, Je (NYS); Castile, *Brad* (Flet); Penn Yan, Je (NYS); Schuyler Co, flying (H); Seneca Co (Felt); Ithaca, Ringwood, May-Aug (Dt); Enfield Falls, on wild cherry (CU); Petersburg (Lint); New Baltimore, Je (AM); Orange Co (Lint); **SI**, May-Aug; **LI**: Setauket (Felt). Breeds in plum, peach, cherry, etc., often causing great loss (L&D).
- 17852 *C. juglandis* Lec. WALNUT CURCULIO. Newport, Je (Felt); Rochester (M&W); Genesee Co, Je (Lg); Buffalo (Z&R); Cattaraugus Co, JI (Ds); Ithaca, Aug (Dt); Phoenicia, Aug (NYS); Poughkeepsie (Felt); West Pt., on walnut and butternut (Robn); Ft. Montgomery, May (Lg); Van Cort. Pk. (Nic); **LI**: Jamaica (Nic).
- 17856 *C. affinis* Boh. Albany, JI (CU).
- 17858 *C. seniculus* Lec. Poughkeepsie, May-Je, on hickory (Felt); Mosholu, Oct (NYS).
- 17859 *C. elegans* Say. Rochester (M&W); Buffalo (Z&R); Ithaca, Ringwood, May-Je (Dt); W. Hebron (Lg); West Pt. (Robn); Orangeburg, Ap (Nic); West Farms (Lg); Bronx, Je (Lg); **SI**, Je, on pignut hickory (L&D); **LI**: Wading R., May (Nic); Bellport, Aug (Nic).
- 17866 *C. crataegi* Walsh. QUINCE CURCULIO. A common pest on quinces and pears wherever they are grown in the State.
- 17872 *C. naso* Lec. **SI**, Je-JI, on *Crataegus* (Ham); **LI**: Long Beach, Je (B&L).
- 17877 *C. posticatus* Boh. Rochester (M&W); Buffalo (Z&R); West Pt. (Robn); **SI**, Je-JI, on *Crataegus* (Ham); **LI**: Rockaway (Ds, Lg); Long Beach (Ds); Yaphank (Ds); Bellport (Nic); Orient Pt., May-JI (Ds).
- 17882 *C. pusillus* Lec. **LI**: Bellport, JI-Aug, on oak (Nic).
- 17884 *C. geminatus* Dej. Rochester (M&W); Genesee Co, Je (Lg); **SI**, JI (L&D); **LI**: Brooklyn, JI (Shoe).
- 17886 *C. infector* Boh. "NY" (Lec).
- 17887 *C. cribricollis* Say. "NY" (Lec).
- 17890 *C. anaglypticus* Say. Adirondacks (Yg); Rochester (M&W); Buffalo (Z&R); Cattaraugus Co, JI (Ds); Ithaca, Aug (Dt); Freeville, Aug (NYS); Enfield, May (NYS); Nassau, JI (NYS); Big Ind. Val., JI (NYS); Poughkeepsie, Je, on slippery elm (Felt); West Pt. (Robn); Ramapo, May (Ds); **SI**, Je, Aug, breeds in hickory (Say).
- 17893 *C. fissunguis* Lec. Pine I. (Ds); Ramapo, Je (Ds); **SI**, in seed pods of swamp rose mallow (L&D); **LI**, Mar (Eng).

## RYSSEMATUS (Chevrolat) Schönherr

- 17899 **R. lineaticollis** Say. Rochester (M&W); Buffalo (Z&R); Ilion, May (NYS); Schuyler Co, Je (H); Lansingburg, Ap-May (CU); Kinderhook, Aug (NYS); West Pt. (Robn); Huguenot, Jl (AM); Ft. Montgomery, Jl (Ds); **SI**, larva breeds in milkweed (L&D); **LI**: Jamaica, *Wolf* (NYS).
- 17900 **R. annectens** Csy. (*R. palmaricollis* of Buffalo and NY lists may be this species.)

## CHALCODERMUS Schönherr

- 17911 **C. collaris** Horn. Rochester (M&W).

## TYLODERMA Say

(*Analcis* Horn)

- 17919 **T. foveolata** Say. Rochester (M&W); Williamsville, Je (NYS); Buffalo (Z&R); Ithaca, Jl (Dt); Windsor, Je (Not); Karner, May, Sep (NYS); Clinton Hgts., Je, Nassau, May (NYS); West Pt. (Robn); Rockland Co, Je (Lg); White Plains, Jl (Lg); **SI**, Je, breeds in stems of evening primrose (L&D); **LI**: Syosset, Jl (NYS); Rosedale (Nic); Bellport, Je (Nic).
- 17924 **T. fragariae** Rly. STRAWBERRY CROWN BORER. **SI** (L&D).
- 17928 **T. aerea** Say. Axton, Je (CU); Newport (NYS); Buffalo (Z&R); Pike (CU); Spring Lake, Je (H); West Pt. (Robn); White Plains, Jl (Lg).
- 17928a **T. aerea** var. **nigra** Csy. Westfield, May (Not); Ithaca, Jl (Dt); Windsor, Je (Not); Gloversville, Nov, Pike, Nassau (NYS).
- 17929 **T. punctata** Csy. Peekskill, Nyack, Yonkers (B&L).

## APTEROMECHUS Faust

- 17968 **A. ferratus** Say. Ithaca, Jl (Dt); Poughkeepsie, Je (NYS); Bronx, Je (Joutel); **SI**, Je (L&D); **LI**: Flatbush (AM).

## CRYPTORHYNCHUS Illiger

- 17970 **C. parochus** Hbst. Newport, May (NYS); Buffalo (Z&R); Ithaca, May, Aug-Sep (Dt); Albany, Sep, Nassau, Ap, Poughkeepsie, May (NYS); Ft. Montgomery, May (Lg); Ramapo, May, Mosholu (Lg).
- 17971 **C. bisignatus** Say. Cranberry L., Aug (H); Buffalo (Z&R); Ramapo, Je (Ds); Bronx, Je (Joutel); **SI**, Je-Jl (L&D); **LI**: Babylon, Je (AM); Jamaica (Nic).
- 17972 **C. pumilus** Boh. West Pt. (Robn); Ft. Montgomery, May (Lg); **SI**, Jl (Lg); **LI**: Glendale, Aug (Lg).
- 17973 **C. fuscatus** Lec. Genesee Co, Je (Lg); Buffalo (Z&R).
- 17974 **C. lapathi** L. POPLAR AND WILLOW BORER. Wilmington, Je (NYS); Cranberry L. (H); Newark, Jl (NYS); Honeoye Falls; Rochester (M&W); Batavia (B&L); Buffalo, Aug (Rein); Pike, Sep, N. Tonawanda, Jl (NYS); Ithaca (B&L); McLean, May (Lg); Windsor, Je (Not); Schoharie (Not); Albany, Jl, Phoenicia, Aug, Milton, May,

Mosholu, Aug (NYS); Catskills, Jl (Nic); Van Cort. Pk. (Bt); Williams Bridge, 1882 (Julich); **SI**, Jl, Sep (L&D); **LI**: Glendale, Aug (Lg).

- 17975 **C. obliquus** Say. Buffalo (Z&R); **LI**: Yaphank, Sep (Ds).  
 17980 **C. obtentus** Hbst. Near NYC (Joutel, Julich); **LI**: Babylon (AM).  
 17981 **C. fallax** Lec. Syracuse (Blkm); Hastings, Je (Joutel); Buffalo (Z&R); Ithaca, Jl (NYS); West Pt. (Robn); **SI**, bred from hickory (L&D); **LI**: Long Beach (AM).  
 17986 **C. tristis** Lec. Mosholu, Je (NYS); **SI**, Je-Jl, on leaves of scarlet oak (L&D); **LI**: Jamaica (Nic).

## SUBFAMILY COSSONINAE

**ACAMPTUS** LeConte

- 18006 **A. rigidus** Lec. Buffalo (Z&R).

**DRYOPHTHORUS** Schönherr

- 18013 **D. americanus** Bedel. Newport (NYS); Gloversville, Ap (NYS); Lakeside, Je, Cy (NYS); Rochester (M&W); Buffalo (Z&R); Cheektowaga (Zimm); Genesee Co, Je (Lg); Ithaca, Danby, Ap-May, Jl (Dt); Schoharie (Not); Albany, May, Delmar, Mar, Poughkeepsie, Jl (NYS); Catskills, Ap, Sep (Lg); West Pt. (Robn); Peekskill (Lg); White Plains, Mar (Lg); Bronxville (B&L); Ramapo Mts. (B&L); Van Cort. Pk. (B&L); **SI** (L&D); **LI**: Bellport, common under pine bark, Mar-Sep (Nic); Flatbush (B&L); Mineola, Jl (NYS).

**HIMATINUM** Cockerell

- 18016 **H. errans** Lec. Rochester (M&W).

**CARPHONOTUS** Casey

- 18018 **C. testaceus** Csy. Cranberry L., Jl, on *Picea rubens* (H).

**COSSONUS** Clairville

- 18020 **C. platalea** Say. Newport, Sep-Oct, on butternut (Felt); Buffalo (Z&R); Westfield, May (Not); Castile, *Brad* (Flet); Ithaca, Je (Dt); West Pt., May (Robn); Ludlow, Jl (JCT); Ramapo (AM).  
 18031 **C. impressifrons** Boh. Johnstown, Aug (NYS); Buffalo (Z&R), as *concinus* Boh.; Bronxville, Jl (B&L).  
 18035 **C. corticola** Say. Rochester (M&W); Buffalo (Z&R); Ithaca (Lg); West Pt. (B&L); Mosholu, Jl (NYS); Van Cort. Pk. (B&L); **SI**, Ap, Aug (L&D); **LI**: Bellport, Jl-Aug (Nic); Cold Sp. Harb., Je (H).

**ALLOMIMUS** LeConte

- 18039 **A. dubius** Horn. Westfield, May (Not); Crusoe L., May (NYS).



## MESITES Schönherr

- 18044 **M. subcylindricus** Horn. **LI**: Flatbush, from a Dutch dictionary (Zab); Bellport, JI, sometimes in great numbers in logs washed up by the ocean (Nic).

## PHLOEOPHAGUS Schönherr

- 18047 **P. apionides** Horn. Newport (NYS); Catskills (Nic).  
 18049 **P. minor** Horn. Buffalo (B&L).  
 18050 **P. spadix** Hbst. Introduced. **LI**: Rockaway Beach, Je, in water-soaked pine driftwood (Julich).

## TOMOLIPS Wollaston

- 18051 **T. quercicola** Boh. "NY" (AM).

## PENTARTHINUS Casey

- 18056 **P. parvicollis** Csy. NYC (AM). **LI**: Flatbush, May, from apple wood (Zab).

## HEXARTHURUM Wollaston

- 18060 **H. ulkei** Horn. Rochester (M&W); NYC, Dec, on white pine (Joutel).

## RHYNCOLUS Germar

- 18070 **R. brunneus** Mann. Cranberry L., Je (H); L. Clear, Je-JI, on pine (Yg); Ithaca, Ap (B&L); Catskills (Nic); Normanskill, Ap (NYS).

## STENOSCELIS Wollaston

- 18073 **S. brevis** Woll. Newport, May, Severance, Aug, *Bks* (NYS); Olcott, JI-Oct (Dt); Genesee Co, Je (Lg); Buffalo (Z&R); Ithaca, JI-Oct (Dt); Schoharie (Not); E. Schodack, Ap (NYS); Catskills (Nic); West Pt. (Robn); Warwick, JI (NYS); Poughkeepsie, Je (NYS); **SI**, Je (L&D); **LI**: Flatbush, Oct-JI, apple (Zab).

## SUBFAMILY CALENDRIINAE

## RHODOBAENUS LeConte

- 18087 **R. tredecimpunctatus** Ill. Mosholu, Je, Bronxville, Aug (Ds); **SI**, May-Oct (L&D).

SPHENOPHORUS Schönherr<sup>60</sup>

- 18101 **S. inaequalis** Say. Ithaca, Je (Dt); Van Cort. Pk. (B&L); **SI**, Aug, etc. (L&D); **LI**: Brooklyn, Ap (Shoe); Bellport (Nic); Rockaway, Je-JI (Nic); Orient Pt., May (NYS); Aqueduct, Sep (Liebeck).

<sup>60</sup> A. F. Satterthwait calls attention to the fact that Pierce has shown the priority of *Calendra* over *Sphenophorus*, and of *Sitophilus* Schön. over *Calendra*. (Proc. Ent. Soc. Wash. 21:21-26, 1919, and 27:113-114, 1925.)

*Sphenophorus* breeds in roots of grass-like plants.

- 18102 *S. aequalis* Gyll. (*ochreus* Lec.). Rochester (M&W); Buffalo (Z&R); Ithaca (Satt); **SI** (L&D); **LI**: Rockaway Beach (Shoe); Bellport, Je (Nic).
- 18107 *S. striatipennis* Chitt. N. Fair Haven, Je (H); McLean, May, Jl (Dt).
- 18108 *S. pertinax* Oliv. Rochester (M&W); Buffalo (Z&R); Cayuga L. (Satt); Cazenovia, Dunkirk, Ithaca (Satt); West Pt. (Robn); **SI**, Ap-May, Aug, in calamus, cattail, etc. (L&D); **LI**: Flushing, Mar, pupae and adults in chambers gnawed in base of cattail stems (Bell); Long Beach, Je (Ds); Brooklyn, Bellport (Nic); Wading R., May-Je (Nic); Orient Pt., May (Ds). Breeds in *Typha latifolia* and *Sparganium eurycarpum*; adults feed also on corn (Satt).
- 18110 *S. setiger* Chitt. Ithaca (Chitt); Dunwoodie (Satt); NYC (Satt); **SI**, May (L&D); **LI**: Cold Sp., Ap, Rockaway (Ds); Flatbush, Je (AM); Bellport, May-Je (Nic); Coney I. (Rbts).
- *S. setiger* var. *intervallatus* Chitt. NY among type localities.
- 18112 *S. peninsularis* Chitt. var. *nasutus* Chitt. NYC, May (Satt).
- 18114 *S. costipennis* Horn. Buffalo (Horn); Pike, Jl (NYS); Renwick Swamp, Mar, Bish (NYS); Nassau, Je (NYS); Catskills (Wickham); West Pt. (Robn); **SI**, Mar, Je (L&D); **LI**: Brooklyn, Rockaway (B&L).
- 18114a *S. costipennis* var. *callosipennis* Chitt. Buffalo (Satt). Breeds in *Carex lacustris* (Satt).
- 18115 *S. villosiventris* Chitt. Buffalo (Chitt); Ithaca (Chitt); Orangeburg, May (Nic); **LI**: Rockaway, Je (Nic); Long Beach (Satt).
- 18120 *S. cariosus* Oliv. Buffalo (Rein); West Pt. (Robn); **SI**, Ap-Je (L&D); **LI**: Jamaica, May-Sep (B&L); Fire I. (B&L); Babylon, Je (AM); Brooklyn, May-Je (Satt); Wading R., May (Nic); Rockaway, Je (Nic); Long Beach, Je (Nic). Breeds in *Rynchospora corniculata*, *Scirpus Eriophorum*, and *Cyperus rotundus*; adults feed also on corn and on *Cyperus erythrorhizos* (Satt).
- 18122 *S. parvulus* Gyll. Peekskill, Mar (Satt); West Pt. (Robn); NYC (Satt); **SI**, Ap-Je (L&D); **LI**: Brooklyn, Jl (Nic); Babylon, Je (AM); Long Beach, Aug (Brownell); Southampton, Sep 24 (Satt). Breeds in wheat, timothy, blue grass, prop roots of corn, root bulbs of *Panicum repens*, and stalks of *Agrostis alba*; adults feed also on corn (Satt).
- 18123 *S. minimus* Hart. **LI**: Long Beach, Je 7 (Nic).
- 18124 *S. marinus* Chitt. West Pt., Sep (AM).
- 18126 *S. retusus* Gyll. Rochester (M&W); Nyack (AM); **LI**: Rockaway Beach (B&L); Fire I., Jl-Sep (B&L); Bellport, Aug (Nic); Long Beach, Jl, Coney I. (Satt). Breeds in *Panicum repens* (Satt).
- 18132 *S. zeae* Walsh (*sculptilis* records probably belong here). Syracuse, May (H); Rochester (M&W); Batavia, Je, Buffalo, Aug (Satt); Silver Cr., Jl, Hunt's Pt., Je (Satt); Ithaca, McLean, May-Sep (Dt); Schoharie (Not); Peekskill (B&L); West Pt. (Robn); Dunwoodie, Sep (Satt); Bronx, Feb-Sep (B&L); **SI**, Jl (L&D); **LI**: Rockaway (AM); Rosedale, Je (Nic); Long Beach, Aug (Wick); Jamaica, Je (Wick). Breeds in timothy; adults feed also on corn (Satt).
- 18135 *S. callosus* Oliv. THE CURLEW BUG of the southern States. Ithaca, Ringwood, May-Je, Nov (Dt). Breeds in sedges, *Rynchospora corniculata*, and, in the Carolinas, in corn; adults feed also on wheat and throughout their range on corn (Satt).

- 18136 **S. melanocephalus** Fab. Buffalo (Z&R); Pike (Liebeck); Ithaca, Je (Dt); Windsor, Je (Not); West Pt. (Robn); Van Cort. Pk. (Satt); **SI**, May-Je (L&D); **LI**: Brooklyn, May (Nic, B&L); Long Beach, Je (Nic); Woodside, Ap (Satt). Breeds in *Leersia oryzoides*; adults feed also on *Carex* sp., and occur, perhaps for feeding, in bunches of *Elymus* sp., *Andropogon virginicus*, and *Sphenopholis obtusata* (Satt).
- 18137 **S. sayi** Gyll. **LI**: Long Beach, Je (Nic).
- 18141 **S. venatus** Say (*placidus* Say). NYC (Satt); **SI**, May-Je, Aug (L&D); **LI**: Rockaway Beach (Ds); Yaphank, Flatbush (AM); Long Beach, Aug (Brownell); Orient Pt., Je (NYS); Clason Pt., JI, Jamaica (Satt). Breeds in *Cyperus esculentus*, Bermuda grass, wheat, and timothy; adults feed also on corn (Satt).

**CALENDRA** Clairville <sup>60a</sup>

(*Calandra* auct.)

- 18157 **C. granaria** L. GRANARY WEEVIL. Introduced. Generally distributed, infesting stored grain.
- 18159 **C. oryzae** L. RICE WEEVIL. Introduced. Generally distributed, infesting stored grain.

**FAMILY PLATYPODIDAE**

**PLATYPUS** Herbst

- 18166 **P. compositus** Say. **SI**, JI 25 (L&D).
- 18167 **P. punctulatus** Chap. Long Island City, Aug (NYS); Astoria, Aug, on mahogany logs from Panama, *Felt* (Hopk).

**FAMILY SCOLYTIDAE** <sup>61</sup>

(*Ipidae* auct.)

**SUBFAMILY SCOLYTINAE**

**SCOLYTUS** Geoffroy

(*Eccoptogaster* Herbst)

- 18169 **S. quadrispinosus** Say. HICKORY BARK BEETLE. Very common. Syracuse, Cazenovia (Blkm); Middletown (Dt, Cy); Tivoli (Felt); Rye (Bird); Bronxville, JI (Felt); **SI**, Je-Aug, causes death of many hickory trees (L&D); **LI**: Prospect Pk., Brooklyn (Felt).
- 18171 **S. rugulosus** Ratz. SHOT-HOLE BORER, or FRUIT-TREE BARK BEETLE. Probably generally distributed throughout the State, but somewhat less common in the northern part; often injurious to apple, cherry, plum, peach, and wild cherry. Representative localities are: Chazy; Plattsburg; Crittenden, Syracuse, Fulton, common, and Cranberry L., rare (Blkm); counties bordering L. Ontario shore; Ripley; Dansville;

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<sup>61</sup> The list for this family has been gone over by Dr. J. M. Swaine and Dr. M. W. Blackman, both of whom have supplied many records and made changes in synonymy.

Elmira; Tompkins Co; Albany Co; Pittstown; Columbia Co; Mt. Vernon; Katonah; **SI** (L&D).

18174 **S. piceae** Sw. Cranberry L., Je, not common (Blkm); Crittenden, Feb, Jl, common (Blkm). Larch, and red and white spruce (Blkm).

18179 **S. sulcatus** Lec. "NY" (Sw); Rochester (M&W).

#### **CNESINUS** LeConte

18186 **C. strigicollis** Lec. **SI**, Je (L&D).

#### SUBFAMILY **HYLESININAE**

##### **CRYPTURGUS** Erichson

18188 **C. atomus** Lec. Cranberry L., Syracuse, Cicero Swamp, Elka Pk., fairly common (Blkm); Ithaca (Sw); Normanskill, Albany, Yg (NYS). Pine, spruces, fir, and larch (Blkm).

18191 **C. corrugatus** Sw. Cranberry L., Elka Pk., fairly common (Blkm).

##### **POLYGRAPHUS** Erichson

18193 **P. rufipennis** Kby. Mt. Seward, Je, 4500 ft. (M&H); L. Pleasant (Lec); Big Moose (Felt); Cranberry L., Syracuse, Cicero Swamp, Elka Pk., very common except at Syracuse (Blkm); Ithaca (Sw). Pines, spruces, and larch (Blkm).

##### **CARPHOBORUS** Eichhoff

18196 **C. bicristatus** Chap. Buffalo (Z&R).

18197 **C. bifurcus** Eich. "NY" (Sw-Lec Coll.).

##### **XYLECHINUS** Chapuis

—— **X. americanus** Blkm. Cranberry L., not common (Blkm). Red and white spruce (Blkm).

##### **CHRAMESUS** LeConte

18202 **C. hicoriae** Lec. Syracuse, common (Blkm); Ithaca (Sw); West Pt. (Robn); **SI** (L&D). Hickory.

##### **PTHOROPHLOEUS** Rey

18206 **P. liminaris** Harr. PEACH BARK BEETLE. Wanakena, Aug, Cranberry L., Je, fairly common (Blkm); Syracuse, not common (Blkm); LaSalle, Somerset (Lint); Buffalo (Kell); Penn Yan (Lint); Ithaca (Sw). Peach, wild cherry, and black cherry (Blkm).

18207 **P. frontalis** Oliv. "NY" (Sw); **SI**, on mulberry (L&D).

18209 **P. piceae** Sw. Cranberry L., fairly common on spruce (Blkm).

## DENDROCTONUS Erichson

- 18221 *D. simplex* Lec. EASTERN LARCH BEETLE. Crittenden, May 4-22, *Stage* (Blkm). Larch.
- 18223 *D. piceaperda* Hopk. EASTERN SPRUCE BEETLE. "NY" (Hopk); L. Pleasant (Lec), as *rufipennis*. Spruce.
- 18229 *D. punctatus* Lec. ALLEGHENY SPRUCE BEETLE. Rochester (M&W); Buffalo (Z&R); Albany (Felt); **LI**: Manor (Felt); Islip (Hopk); Central Pk. (Eng). Swaine writes, "The Rochester, Buffalo, Albany, and Manor records I should think doubtful, unless checked by Hopkins."
- 18231 *D. valens* Lec. RED TURPENTINE BEETLE. Cranberry L., Syracuse, Elka Pk., common (Blkm); Ithaca (Hopk); West Pt. (Robn), as *terebrens*.

## PHLOESINUS Chapuis

- 18237 *P. canadensis* Sw. Cranberry L., Syracuse, Jamesville, common to very common (Blkm). Arbor vitae.
- 18238 *P. dentatus* Say. Adirondacks (Felt); West Pt. (Robn); **LI**: Central Pk., Ap (Eng). Arbor vitae.
- 18239 *P. serratus* Lec. "NY" (Sw, Lec).
- 18244 *P. rugosus* Sw. **LI**: Flatbush (Ds).

## LEPERISINUS Reitter

- 18247 *L. fasciatus* Lec. "NY" (Sw). Ash.
- 18248 *L. imperialis* Eich. "NY" (Sw-Cah. Nat. Coll.).
- 18252 *L. aculeatus* Say. Newport (NYS); Syracuse, Sep-Oct, not common (Blkm); Olcott, Aug (Dt); Rochester (M&W); Buffalo (Z&R); Ithaca (Sw); Cornwall (NYS); **SI**, May 5 (L&D). Ash.

## HYLASTINUS Bedel

- 18255 *H. obscurus* Marsh. CLOVER ROOT-BORER. Syracuse, May (Blkm); Buffalo, Je (Kell); Westfield, May (Not); Bristol Sps. (Lint); Ithaca, Je, *Dt* (Sw); **SI**, Je (L&D). Clover.

## HYLURGOPINUS Swaine

- 18257 *H. rufipes* Eich. Rochester (M&W); Buffalo (Z&R); Ithaca, Je, *Dt* (Sw); Hoosick Falls, May (Blkm); West Pt. (Robn).

## HYLURGOPS LeConte

- 18267 *H. pinifex* Fitch. Cranberry L., Syracuse, Elka Pk., very common (Blkm); Rochester (M&W); Buffalo (Z&R); Ithaca, Jl, Sep, *Dt* (Sw); West Pt. (Robn); **LI**: Central Pk., Ap (Eng). Pines and spruce.

## HYLOCURUS Eichhoff

- *H. biorbis* Blkm. Syracuse, May 12, *Stage*, type.



**HYLASTES** Erichson*(Tomicus* Latreille)

- 18273 **H. salebrosus** Eich. Ithaca, Je, *Dt* (Sw). Pine.  
 18274 **H. scaber** Sw. "NY" (Sw).  
 18276 **H. porculus** Er. Ithaca (Sw). Pine.

SUBFAMILY **MICRACINAE****MICRACIS** LeConte

- 18288 **M. suturalis** Lec. Buffalo (Z&R); West Pt. (Robn).  
 18290 **M. rudis** Lec. "NY" (Sw).  
 18291 **M. opacicollis** Lec. Ithaca (Sw); **LI**: Westbury (US). Oak and Castanea.  
 18292 **M. asperulus** Lec. "NY" (Sw); Windsor, Je (Not).  
 — **M. populi** Sw. Ithaca (Sw), type. Poplar.

**THYSANOES** LeConte

- 18294 **T. fimbricornis** Lec. Rochester (M&W); West Pt. (Robn).

**PSEUDOTHYSANOES** Blackman

- **P. drakei** Blkm. Syracuse, type locality (Blkm). Basswood.

**PTEROCYCLON** Eichhoff*(Monarthrum* Kirsch)

- 18298 **P. fasciatum** Say. Buffaio (Z&R); Ithaca, JI, *Dt* (Sw); **SI**: Port Richmond (L&D). Maple, beech, etc. (Sw).  
 18299 **P. mali** Fitch. APPLE WOOD STAINER. Axton, Floodwood (Felt); Cranberry L., Syracuse, Elka Pk., common (Blkm); Olcott, *Dt* (Sw); Buffalo (Z&R); Ithaca, *Dt* (Sw); **SI**: Clove Val., May (L&D). Oak, birch, and various hardwoods; apple.

**CORTHYLUS** Erichson

- 18301 **C. punctatissimus** Zimm. "Northeastern NY" (Sz). Rhododendron.

**XYLOTERINUS** Swaine

- 18304 **X. politus** Say. Axton, Floodwood (Felt); Cranberry L., Syracuse, Elka Pk., common (Blkm); Buffalo (Z&R); Westfield, May (Not); Ithaca (Sw); Windsor, Je (Not); West Pt. (Robn). Various hardwoods and hemlock (Blkm).

**TRYPODENDRON** Stephens

- 18305 **T. scabricollis** Lec. "NY" (Lg Cat., Sw). Pine (Sw).  
 18306 **T. retusum** Lec. Cranberry L., Syracuse, Elka Pk., JI-Aug, uncommon to fairly common (Blkm); Ithaca (Sw). Poplars.

- 18307 **T. betulae** Sw. Cranberry L., Elka Pk., very common (Blkm); Ithaca (Sw). Birches.  
 18309 **T. bivittatum** Kby. Big Moose, Jl, Yg (Felt), as *Xyloterus lineatus* Oliv., probably belongs here (Sw). Cranberry L., Syracuse, not very common, Elka Pk., common (Blkm); Ithaca (Sw). Pines, spruces, firs, hemlock, larch, and juniper (Blkm, Sw).

**HYPOTHENEMUS** Westwood

- 18321 **H. hispidulus** Lec. **SI**, Mar (L&D).

**STEPHANODERES** Eichhoff

- 18367 **S. dissimilis** Zimm. Ithaca, Sep (Frost, Sw), Nov (Chitt); **SI**, Je (L&D).

**CRYPHALUS** Erichson

- 18377 **C. balsameus** Hopk. Cranberry L., Elka Pk., common (Blkm). Fir.  
 ——— **C. mainensis** Blkm. Cranberry L., common (Blkm). Spruce.

**LETZNERELLA** Reitter

- 18379 **L. jalappae** Letzn. **LI**: Brooklyn, 1874, Hubbard and Sz, from *Radix jalappae* (Sz).

**GNATHOTRICHUS** Eichhoff

- 18400 **G. materiarius** Fitch. Mt. Seward, 4500 ft., Je (M&H); Big Moose (Felt); Cranberry L., Syracuse, Elka Pk., common (Blkm); Buffalo (Z&R); Ithaca, Ap, Jl, Dt (Sw); West Pt. (Robn); **LI**: Manorville, Oct (Felt). Pine, spruce, larch, and fir.

**CONOPHTHORUS** Hopkins

- 18405 **C. resinosae** Hopk. **LI**: Southold, Mar 1, in red-pine cones (Blkm).  
 18410 **C. coniperda** Sz. Axton, Upper Jay, Cranberry L., in white-pine cones (Blkm).

**PSEUDOPITYOPHTHORUS** Swaine

- 18417 **P. minutissimus** Zimm. Syracuse, May, fairly common (Blkm); West Pt. (Robn). Oaks.  
 18419 **P. pruinosis** Eich. Peekskill (Ds); **LI**: Rockaway Beach, in wash-up (Nic). Oak.

**PITYOPHTHORUS** Eichhoff

- 18421 **P. ramiperda** Sw. Niagara, Je 21, 1909 (Blkm).  
 18423 **P. pulicarius** Zimm. Ithaca (Sw). Pines.  
 18425 **P. rhois** Sw. Syracuse, rather common (Blkm); Ithaca (Frost, Sw). Sumach and poison ivy (Blkm).

- 18428 *P. puberulus* Lec. Cranberry L., Syracuse, common (Blkm); Ithaca (Sw); Albany (Lint). Pine and fir.
- 18429 *P. opaculus* Lec. Cranberry L., very common (Blkm); Ithaca (Sw). Spruce and pine.
- 18437 *P. cariniceps* Lec. Syracuse, common in white pine (Blkm); Ithaca (Frost, Sw), Aug (Chitt).
- 18438 *P. canadensis* Sw. Axton, Sep, Cranberry L., common in white pine (Blkm).
- 18440 *P. pulchellus* Eich. **LI**: Westbury, Mar 23 (Blkm-US).
- 18442 *P. pullus* Zimm. "NY" (Sw). Pines.
- 18445 *P. granulatus* Sw. Cranberry L., Syracuse, infesting white pine similarly to *nudus* (Blkm).
- 18446 *P. nudus* Sw. Cranberry L., Syracuse, common in shaded-out limbs and small trees of white pine (Blkm).
- 18447 *P. consimilis* Lec. Ithaca (Sw); Windsor, Je (Not).
- *P. dentifrons* Blkm. Cranberry L., very common in red spruce (Blkm).
- *P. shepardi* Blkm. Cranberry L., very common in red spruce (Blkm).

## PITYOGENES Bedel

- 18455 *P. hopkinsi* Sw. Axton, Upper Jay, Cranberry L., Elka Pk., Syracuse, Cicero Swamp, Schaghticoke, mostly in Sep, very common in white pine (Blkm); Ithaca (Frost).
- 18459 *P. plagiatus* Lec. "NY", in *Pinus banksiana* (Sw).

## IPS DeGeer

*(Tomicus Latreille)*

- 18462 *I. calligraphus* Germ. Adirondacks (Felt); Buffalo (Z&R); Syracuse, Albany, not very common (Blkm); Ithaca (Sw); Lansingburg (Felt); West Pt. (Robn); **LI**: Central Pk., Ap (Eng); Manorville (Felt). Pines.
- 18463 *I. grandicollis* Eich. Cheektowaga (Lec); Ithaca (Sw); Windsor, Je (Not); Slingerlands, Karner, Aug-Sep (Felt); **SI**, Sep, on pine and spruce ((L&D); **LI**: Manorville, Oct (Felt).
- 18464 *I. chagnoni* Sw. "NY" (Sw). Pine.
- 18469 *I. longidens* Sw. Cranberry L., not common, Syracuse, fairly common in white pine (Blkm); Ithaca, from hemlock, type locality (Sw).
- 18475 *I. pini* Say. Saranac, Round L., L. Clear Jct. (Felt); Axton, Cranberry L., Elka Pk., Syracuse, very common in pine (Blkm); Buffalo (Z&R); Ithaca, Ap-Jl, *Dt* (Sw); Lansingburg, Rensselaer (Felt). Pine and hemlock (Sw).
- 18480 *I. borealis* Sw. Cranberry L., not common in white pine (Blkm).

## PITYOKTEINES Fuchs

- 18488 *P. sparsus* Lec. Mt. Seward, Je (M&H); Cranberry L., Elka Pk., very common in fir (Blkm); Buffalo (Lec); West Pt. (Robn).

## ORTHOTOMICUS Ferrari

- 18492 *O. caelatus* Eich. Rochester (M&W); Buffalo (Eich); Cranberry L., Elka Pk., Syracuse, Cicero Swamp, very common in stumps, in lower parts of trees, and in fallen trees of pines, spruces, and larch (Blkm); Ithaca, Mar-Jl, *Dt* (Sw); West Pt. (Robn).  
 18493 *O. punctipennis* Lec. "NY" (Sw).

## AMBROSIODMUS Hopkins

- 18499 *A. tachygraphus* Zimm. "NY" (Sw).

## ANISANDRUS Ferrari

- 18500 *A. obesus* Lec. Cranberry L., Elka Pk., not uncommon in beech (Blkm); West Pt. (Robn).  
 18502 *A. pyri* Peck. Syracuse, May, not common, *H* (Blkm); as *Xyleborus dispar*, a similar European species, Buffalo (Z&R), Lockport, Geneva, Penn Yan (Lint), probably referring to this species. Hardwood and fruit trees.  
 18503 *A. minor* Sw. Syracuse, not common, in sugar maple (Blkm); Ithaca (Sw).  
 — *A. swainei* Drk. Cranberry L., Jl-Aug, not common (Drk).

## XYLEBORUS Eichhoff

- 18506 *X. saxeseni* Ratz. Syracuse, Dec, in oak, not common (Blkm); West Pt. (Robn). Fruit trees (Sw).  
 18507 *X. xylographus* Say. "NY" (Sw).  
 18511 *X. pubescens* Zimm. **SI**: Watchogue, Aug (L&D).  
 18512 *X. celsus* Eich. Syracuse, very common in dying hickory (Blkm); **SI**, Ap, in tulip log (L&D).  
 18513 *X. fuscatus* Eich. Buffalo (Eich).  
 18524 *X. fitchi* Hopk. Described from **LI** (Hyslop), in Pinus.

## XYLOCLEPTES Ferrari

- 18532 *X. cucurbitae* Lec. "NY" (Sw).

## DRYOCOETES Eichhoff

- 18536 *D. granicollis* Lec. Cranberry L., Je 25, 1915, in spruce (Blkm); **SI**, Je (L&D).  
 18538 *D. americanus* Hopk. Cranberry L., Elka Pk., Cicero Swamp, fairly common in spruce and firs (Blkm); Ithaca (Sw); Windsor, Je (Not). The *D. septentrionis* Mann. (18539), "NY" (Lec in Trans. Am. Ent. Soc., vol 2, p. 161, 1868, as *Xyleborus*), perhaps belongs here (Lg).  
 18540 *D. betulae* Hopk. Mt. Whiteface, 4000 ft., Aug, *Dt* (Sw); Big Moose, *Yg* (Felt); Cranberry L., Elka Pk., very common in yellow birch, and occasionally in white birch and beech, a few in pine and spruce (Blkm).  
 18544 *D. affaber* Mann. (*piçæae* Hopk., according to Sw). Cranberry L., Elka Pk., very common in spruce (Blkm).

## LYMANTOR Lovell

- 18547 *L. decipiens* Lec. Ithaca, in maple (Sw).

## ORDER STREPSIPTERA

## FAMILY STYLOPIDAE

## XENOS Rossi

- X. wheeleri** P. "NY," parasite of *Polistes metricus* (Pierce, 1918, p. 461).  
**X. peckii** Kby. **SI**, based on a specimen in Ds Coll. of a stylopized *Polistes* (Lg).

## ORDER MECOPTERA

## FAMILY PANORPIDAE

## PANORPA Linnaeus

- P. affinis** Bks. **LI**: Sea Cliff (Bks).  
**P. banksii** Hine. **LI**: Sea Cliff (Hine). Type.  
**P. canadensis** Bks. Adirondacks, Aug (Ds); Whiteface Mt., summit, J1 (Ds); Old Forge, Aug; Saranac L., Aug; Cranberry L., J1, *div.*; Axton, Je, *MacG&Houghton*; trail to Mt. McIntyre.  
**P. claripennis** Hine. Onteora Mt., Je, *How* (Bks).  
**P. confusa** Westw. Ithaca, Je 26, 1915 (SmRC); Ft. Montgomery, J1 (Eng).  
**P. latipennis** Hine. Mt. Whiteface, summit, J1, common (Ds); Axton, Je (Eng); Rock City, Je (Ds); Old Forge, J1 (NYS-CU).  
**P. maculosa** Hagen.<sup>61a</sup> St. Lawrence Co, Aug; Old Forge, Je (NYS-CU); Cranberry L., J1; Morrissey, Axton, Je, *M&H*; Keene Val., Aug, *Diven*; Rock City, Je; Canandaigua L. (Felt); Ithaca, Je; Freeville, J1; McLean, Je-J1; Caroline to Harford, Je; Trenton Falls, Je, *Leon&Fbs*; Little Falls, J1; L. George, J1 (Ndm); Tackawasick Pond, Rensselaer Co., Je 25, *Cy* (SmRC); Nyack, Je, West Pt., Je, Ft. Montgomery, May (Ds); Mosholu, Je, Aug (Bno); **SI**, Je (Ds).  
**P. nebulosa** Westw.<sup>61a</sup> Saranac Inn (Ndm); Axton, Je, *M&H*; Old Forge, Aug; Castile, Je, *Brad*; Rochester Jct., Je, *Leon*; Portageville, Je; Ithaca, May-J1 (*div.*); Ringwood, Je; Mud Cr., Tompkins Co, Je; McLean, Ap; Trenton Falls (Wlk); Onteora Mt., *How* (Bks); Ramapo, Je (Ds); West Pt, Je; **SI**: Watchogue, Je (Ds); **LI**: Yaphank, Half Way Hollow Hills, J1 (Ds).  
**P. rufa** Gray (*fasciata* Klug). "NY" (Fitch). Probably a misidentification; occurs in Ga.  
**P. rufescens** Ramb. N. Twin Br., Mt. Marcy, J1 (*lbs*); Syracuse, Aug; Batavia, J1, *Kngt*; Castile, *Brad*; Ithaca and vic., common everywhere (*div.*); Trenton Falls (Wlk); Sharon Sps. (Hagen); Onteora Mt., J1, *How* (Bks); Nyack, Je, Croton-on-Hudson, Je, Ramapo, May, Mosholu, May (Ds); **SI**: Tottenville, Richmond, Je-Aug (Ds); **LI**: Cold Sp. Harb., J1-Aug, Yaphank, J1, Pinelawn, Aug (Ds); Forest Pk., Je.  
**P. signifer** Bks. Mt. Whiteface, summit, J1 (Ds); Saranac Inn (Ndm); E. Jewett, Aug (Eng); Greene Co, J1; Keene Val., Aug, *Diven*; Cranberry L., *Drake*; Axton, Je, *MacG&Houghton*; Pine I., J1, *Frost*.  
**P. subfurcata** Westw. Axton, Je, *MacG&Houghton*; Cranberry L., J1, *C.H.Foster* (*div.*); McLean, May (Ds); Sullivan Co, Sep (Ds); Onteora Mt., J1, *How* (Bks); Ramapo, Je (Ds); Pine I., Je (Ds).

<sup>61a</sup> *P. maculosa* and *P. nebulosa* are much confused both in literature and in collections, and some records for each may be misplaced. The two species evidently fly together throughout the State. (Fbs).



- P. venosa** Westw. Axton, Je (M&H); Castile, May, *Brad* (Fbs); Ramapo, May (Ds); **SI**, Sep (Ds); **LI**: Cold Sp. Harb., Jl-Aug, and Yaphank, Jl (Ds); Pinelawn, Aug.

**BOREUS** Latreille

- B. brumalis** Fitch. Washington Co (Hagen); **SI**: Clove Valley, Dec, on snow (Ds); **LI**: Sea Cliff (Eng-AM).  
**B. nivoriundus** Fitch. Ithaca, Dec 18 (Eng-AM); Washington Co (Hagen); **LI**: East New York, early spring, on snow (Fitch).

**BITTACUS** Latreille

- B. apicalis** Hagen. Canandaigua L., Jl 21, *Pettit* (CU); Six Mile Cr., Ithaca, Aug, *H. Yuasa*, rare; Batavia, Jl, *Kngt*.  
**B. pilicornis** Westw. Trenton Falls, *OS* (Hagen); Mosholu, Je (Bno); Ithaca, Jl.  
**B. stigmaterus** Say. "NY" (Hine).  
**B. strigosus** Hagen. Batavia, Jl, *Kngt*; N. Hector, Aug; Ithaca, Jl (CU); **SI**: Richmond Hill, common in woods; **LI**: Cold Sp. Harb., Floral Pk., Jl (Ds); Queens, Jl.

**MEROPE** Newman

- M. tuber** Newn. Cranberry L., Jl 22 (CU); Ithaca, Aug 25, pair (*Fbs*); McLean, Aug 27 (Sib); Slaterville, Jl (Bdy); Trenton Falls, *Dbl* (Newn); Salem, Jl (Fitch); Sullivan Co, Aug (Jn).

ORDER **TRICHOPTERA**<sup>62</sup>

FAMILY **RHYACOPHILIDAE**

SUBFAMILY **RHYACOPHILINAE**

**RHYACOPHILA** Pictet

- R. carolina** Bks. Old Forge, Beaver Meadow Br., Jl (Bet).  
**R. fuscula** Wlk. Old Forge, Ithaca, May-Aug (Bet).  
**R. nigrita** Bks. (*torva* Bks. not Hagen). Colden, Je, *Bet* (EPV).  
**R. torva** Hagen (*terminata* Bks., *luctuosa* Bks.). Woodworth's L., Gloversville, Je (Alex); Ithaca, Je (Bet); Trenton Falls (OS).  
**R. sp.** Old Forge, Jl (Bet).  
**R. sp.** Fulton Chain, Aug (Bet).  
**R. sp.** Ithaca, Aug (Bet).

SUBFAMILY **GLOSSOSOMATINAE**

**MYSTROPHORA** Klapálek

- M. americana** Bks. Niagara Gorge (Bet); Newfield, Je (MacG); Ithaca (Lloyd); McLean, Je, Aug (Sib).  
**M. sp.** Ogdensburg (Bet).

<sup>62</sup> The list of Trichoptera has been compiled principally from Dr. Cornelius Betten's extensive manuscript dealing with a revision of the American Trichoptera. Many of the species in the present list recorded simply as "sp.," bear manuscript names in Dr. Betten's monograph, and for a number of species Dr. Betten has erected new genera. Since immediate publication of Dr. Betten's paper unfortunately is not assured, it has seemed impossible to indicate here the proper generic position of all species or to use his manuscript names for new species.

## AGAPETUS Curtis

- A. minutus* Sib. McLean, Sep (Sib).

## FAMILY HYDROPTILIDAE

## AGRAYLEA Curtis

- A. multipunctata* Curtis. Ogdensburg, Ithaca, Jl-Sep (Bet); McLean, Je, Sep, very common (Sib).

## PROTOPTILA Banks

- P. maculata* Hagen. Ogdensburg, Buffalo, Ithaca, Jl-Aug (Bet); Sacandaga Pk., Je, *Alex* (Bks).

## ORTHOTRICHIA Eaton

- O. americana* Bks. Ithaca, Jl (Bet).  
*O. brachiata* Morton. Ithaca, Jl (Bet).  
*O. pictipes* Bks. Hales Cr., Johnstown, Je, *Alex*, type.

## ITHYTRICHIA Eaton

- I. clavata* Morton. Ithaca, Jl (Bet).  
*I. confusa* Morton. Ithaca, Aug (Bet); Cascadilla Cr., Ithaca (Lloyd); McLean, Jl (Sib). Should be a new genus.

## HYDROPTILA Dalman

- H. albicornis* Hagen. Old Forge, Ithaca, Aug (Bet); McLean, Je-Sep, very common (Sib).  
*H. consimilis* Morton. Ithaca, Jl (Bet); McLean, Jl-Sep (Sib).  
*H. delineata* Morton. Ithaca, Jl (Bet).  
*H. hamata* Morton. Ithaca, Jl (Bet).  
*H. perdita* Morton. Ithaca, Jl (Bet).  
*H. spatulata* Morton. Ithaca, Jl (Bet).

## OXYETHIRA Eaton

- O. coercens* Morton. Ithaca, Jl (Bet).  
*O. viminalis* Morton. Ithaca, Jl (Bet).  
*O. dualis* Morton. McLean, Aug-Sep (Sib).  
*O. sp.* Old Forge, Jl-Aug, Ithaca, Aug (Bet).

## NEOTRICHIA Morton

- N. collata* Morton. Old Forge, Ithaca, Jl-Aug (Bet).

## FAMILY PHILOPOTAMIDAE

## PHILOPOTAMUS Leach

- P. americanus** Bks. Gloversville, Mar, *Alex* (Bet); **LI**: Sea Cliff, Mar–Ap, Dec (Bks).  
**P. distinctus** Wlk. Woodworth's L., Je, *Alex* (Bks); West Falls, J1 (Bet); Ithaca, J1 (Bet); Trenton Falls (Wlk).

## DOLOPHILUS Banks

- D. breviatus** Bks. Old Forge, Buffalo, J1 (Bet); Ithaca, J1 (Bks).

## CHIMARRHA Leach

- C. aterrima** Hagen. Ogdensburg, J1–Aug, very common (Bet); Johnstown, Sacandaga Pk., Aug, *Alex* (Bks); Ithaca, J1–Aug (Bet); McLean, May–Aug (Sib); **SI**, Je (Ds).  
**C. socia** Hagen. Johnstown, Sacandaga Pk., Je, *Alex* (Bks); Tupper L., Niagara Falls, Lancaster, Ithaca, Je–Aug (Bet).  
**C. sp.** Ogdensburg, Ithaca, Je–Aug (Bet).

## FAMILY HYDROPSYCHIDAE

## SUBFAMILY HYDROPSYCHINAE

## ARCTOPSYCHE McLachlan

- A. apicalis** Bks. Fourth L., Je (Dickerson); Old Forge, J1 (Bet); Sacandaga Pk., Je, *Alex* (Bks); Castile, Je, *Brad* (Sib); McLean, Je (Sib). Should be new genus.

## DIPLECTRONA Westwood

- D. modesta** Bks. Woodworth's L., Je, *Alex* (Bks); Newfield, Je, *Bet* (MacG); McLean, Je–J1 (Lloyd, Sib).

## HYDROPSYCHE Pictet

- H. alternans** Hagen. Old Forge, Fourth L., Ithaca, J1–Aug (Bet); McLean, J1–Sep (Sib); Onteora Mt., *How* (Caudell).  
**H. chlorotica** Hagen. Buffalo, Je, very common (Bet); Trenton Falls (OS).  
**H. incommoda** Hagen. Saranac Inn, Old Forge, Ithaca, May–Sep (Bet).  
**H. phalerata** Hagen. Saranac Inn, Ithaca, J1–Aug (Bet); McLean, Je–Sep (Sib).  
**H. recurvata** Bks. McLean, Je–Aug (Sib).  
**H. scalaris** Hagen. Ogdensburg, Buffalo, J1–Sep (Bet); Sacandaga Pk., Je, *Alex* (Bks).  
**H. venularis** Bks. Old Forge, J1 (Bet).  
**H. sp.** Ogdensburg, Aug (Bet).  
**H. sp.** Niagara Falls, Ithaca, Aug (Bet).  
**H. sp.** Ithaca, Je (Bet).

## HYDROPSYCHODES Ulmer

- H. analis** Bks. Ogdensburg, Old Forge, Saranac Inn, Buffalo, Ithaca, Je-Sep (Bet); McLean, Je-Sep (Sib).  
**H. sordida** Hagen. Ogdensburg, Jl-Aug (Bet); Sacandaga Pk., Je, *Alex* (Bks); McLean, Jl-Aug (Sib).

## SUBFAMILY MACRONEMATINAE

## MACRONEMA Pictet

- M. zebratum** Hagen. Saranac L., Je (NYS); Sacandaga Pk., Je, *Alex* (Bks); Niagara R., Buffalo, Jl, very common (Bet).

## FAMILY POLYCENTROPIDAE

## SUBFAMILY POLYCENTROPINAE

## NEURECLIPSIS McLachlan

- N. crepuscularis** Wlk. Buffalo, Je-Jl, common (Bet).  
**N. parvula** Bks. Ogdensburg, Buffalo, Ithaca, Jl-Aug (Bet).

## PHYLOCENTROPUS Banks

- P. lucidus** Hagen. Saranac Inn, Old Forge, West Falls, Je (Bet); Sacandaga Pk., Gloversville, Je, *Alex* (Bks); McLean, Je-Aug (Sib); Trenton Falls (OS).  
**P. placidus** Bks. Saranac Inn, Buffalo, Jl-Aug (Bet); Sacandaga Pk., Je, *Alex* (Bks); McLean, Je, Aug (Sib).

## PLECTROCNEMIA Stephens

- P. adironica** Bks. Axton, Je (MacG).  
**P. canadensis** Bks. Ogdensburg, Old Forge, Ithaca, Je-Jl (Bet); Sacandaga Pk., Woodworth's L., Je, *Alex* (Bks); McLean, Jl-Aug (Sib).  
**P. confusa** Hagen. McLean, Aug-Sep (Sib); Trenton Falls (OS); **SI**: Silver L., Je (Bks,Ds).  
**P. sp.** Buffalo, Jl (Bet).

## POLYCENTROPUS Curtis

- ?**P. maculatus** Bks. McLean, Jl (Sib).  
**P. sp.** Ogdensburg, Aug (Bet).

## HOLOCENTROPUS McLachlan

- H. flavus** Bks. Long Pt., Cayuga L., Je (Bet); McLean, Je-Jl (Sib).

## NYCTIOPHYLAX Brauer

- N. affinis** Bks. Buffalo (EPV).  
**N. vestitus** Hagen. Westport, Aug (NYS); Old Forge, Buffalo, Je, Aug (Bet); Woodworth's L., Sacandaga Pk., Je, *Alex* (Bks); McLean, Je-Aug (Sib); Nassau (Felt).

FAMILY **PSYCHOMYIDAE****LYPE** McLachlan

**L. sp.** Old Forge, Je-Jl (Bet); McLean, Je-Aug (Sib).

**PSYCHOMYIA** Latreille

**P. flavida** Hagen. Gloversville, Johnstown, May-Je, *Alex* (Bks); Niagara Falls, Buffalo, Jl (Bet); McLean, Je-Aug, very common (Sib).

FAMILY **CALAMOCERATIDAE****GANONEMA** McLachlan

**G. nigrum** Lloyd. McLean, Je-Jl (Lloyd, Sib); New Rochelle (Mrs. N.F.Davis).

**HETEROPECTRON** McLachlan

**H. boreale** Prov. Sacandaga Pk., Je, *Alex* (Bks); Ft. Montgomery (Ds); **SI**, May (Ds). Probably the same as *Psilotreta*.

FAMILY **ODONTOCERIDAE****PSILOTRETA** Banks

**P. dissimile** Bks. **LI**: Sea Cliff, Je-Jl (Bks).

**P. frontalis** Bks. Ogdensburg, Old Forge, Jl (Bet); Castile, Je, *Brad* (Sib); Freeville, May-Je (Lloyd); McLean, Je (Sib); Nassau (Felt); New Rochelle (Mrs. N.F.Davis); **LI**: Sea Cliff, Je (Bks). Probably this is *boreale* Prov.

FAMILY **MOLANNIDAE**SUBFAMILY **MOLANNINAE****MOLANNA** Curtis

**M. blenda** Sib. Old Forge, Jl (Bet); McLean, Aug-Sep (Sib).

**M. cinerea** Hagen. Ogdensburg, Old Forge, Buffalo, May-Aug (Bet); Woodworth's L., Sacandaga Pk., Je, *Alex* (Bks).

**M. flavicornis** Bks. Ogdensburg, Buffalo, Jl (Bet).

**M. rufa** Hagen. Trenton Falls (OS).

**M. sp.** Old Forge, Canoga, Cayuga L., Jl-Aug (Bet); Oxford, Jl (Sib).

**M. sp.** Saranac Inn, Old Forge, Je-Aug (Bet); Nassau (Felt).

SUBFAMILY **BERAEINAE****BERAEA** Stephens

**B. nigritta** Bks. Ithaca (Bet); **LI**: Sea Cliff, Je (Bks).



## FAMILY LEPTOCERIDAE

## LEPTOCERUS Leach

- L. ancylus* Vorhies. Buffalo, Jl (Bet); Ithaca (Lloyd).  
*L. dilutus* Hagen. Buffalo, Ithaca, Je (Bet).  
*L. maculatus* Bks. McLean, Jl-Aug (Sib).  
*L. punctatus* Bks. Ogdensburg, Ithaca, Jl-Aug (Bet).  
*L. recurvatus* Bks. Westfield, Je-Jl (Woglum).  
*L. submacula* Wlk. Buffalo, Je, common (Bet).  
*L. tarsi-punctatus* Vorhies. Saranac Inn, Ogdensburg, Old Forge, Jl-Aug (Bet).  
*L. variegatus* Hagen. Ogdensburg, Old Forge, Saranac Inn, Ithaca, Je-Aug (Bet).  
*L. sp.* Buffalo, Je (Bet).  
*L. sp.* Ogdensburg, Saranac Inn, Old Forge, Buffalo, Jl-Aug (Bet).  
*L. sp.* Buffalo, Jl (Bet).

## LEPTOCELLA Banks

- L. albida* Wlk. Ogdensburg, Buffalo, Je-Aug (Bet); Clayton, Jl (Felt); Niagara Falls, Jl (Ds).  
*L. exquisita* Wlk. Ogdensburg, Buffalo, Ithaca, Je-Aug (Bet); Sacandaga Pk., Johnstown, Je, *Alex* (Bks); Albany (Felt).  
*L. pavidia* Hagen. Old Forge, Jl (Bet).

## OECETIS McLachlan

- O. avara* Bks. Ogdensburg, Buffalo, Ithaca, Jl-Aug (Bet); McLean, Jl-Aug (Sib).  
*O. immobilis* Hagen. Ogdensburg, Aug, common (Bet).  
*O. incerta* Wlk. Westport (NYS); Ogdensburg, Old Forge, Buffalo, Jl-Sep, very common (Bet); Woodworth's L., Sacandaga Pk., Je-Aug, *Alex* (Bks); McLean, Je-Aug (Sib); **LI** (Bks).  
*O. persimilis* Bks. Saranac Inn, Old Forge, Jl (Bet).  
*O. resurgens* Wlk. (*fumosa* Bks.). Ogdensburg, Old Forge, Buffalo, Jl-Aug (Bet); **SI** (Ds); Silver L., Je (Bks, Ds).  
*O. sp.* Old Forge, Clayton, Jl (Bet).

## SETODES Rambur

- S. americana* Bks. McLean, Jl-Aug, very common (Sib).  
*S. grandis* Bks. Ogdensburg, Old Forge, Ithaca, Je-Jl (Bet).  
*S. vernalis* Bks. Old Forge, Ithaca, Jl-Aug (Bet); Tonawanda (EPV).  
*S. sp.* Ogdensburg, Buffalo, Jl (Bet).

## MYSTACIDES Latreille

- M. longicornis* L. Ogdensburg, Aug (Bet).  
*M. nigra* L. Ogdensburg, Jl (Felt); Ramapo, May (Ds).  
*M. sepulchralis* Wlk. Sacandaga Pk., Je-Aug, Johnstown, Je, *Alex* (Bks); Ithaca, McLean (Sib); L. George, L. Heart (Sib); Clayton, Nassau (Felt). Common at many points. Specimens reported as *nigra* doubtless belong here (Bet).

## TRIAENODES McLachlan

- T. dentata** Bks. Ogdensburg, J1 (Bet); Johnstown, Je (Alex).  
**T. ignita** Wlk. Westport, Aug (NYS); Ogdensburg, Buffalo, Aug (Bet); Niagara Falls, J1 (Ds); Castile, *Brad* (Sib); Pine I., Je (Ds); **SI**: Clove Val., Aug (Ds).  
**T. injusta** Hagen (*flavescens* Bks.). Ogdensburg, Saranac Inn (Bet); McLean, Aug (Sib).  
**T. sp.** Ogdensburg, Buffalo, Aug (Bet).  
**T. sp.** Ithaca (CU); McLean, J1-Aug (Sib).

## FAMILY PHRYGANEIDAE

## PHRYGANEAE Linnaeus

- P. cinerea** Wlk. Ogdensburg, Old Forge, J1 (Bet).  
**P. improba** Hagen. Catskills.  
**P. interrupta** Say. Ogdensburg, J1-Aug (Bet); Clayton (Felt); Ithaca, May-Je (Lloyd), J1-Aug (Bet); McLean, J1-Aug (Sib); Sullivan Co (Ds); **SI**: Clove Val., J1 (Ds); **LI**: Deep Pond, Wading R., Je-J1 (Ds).  
**P. vestita** Wlk. Saranac Inn (Bet); Ithaca (Bet), Je (Lloyd); McLean, Aug (Sib); **SI**, May (Ds).

## NEURONIA Leach

- N. concatenata** Wlk. Ogdensburg, Keene Val., Old Forge, J1 (Bet); Johnstown, J1 (Alex).  
**N. dossuaria** Say. Keene Val., Old Forge, J1 (Bet).  
**N. ocellifera** Wlk. Batavia, J1 (Lloyd); **SI**, May-Aug (Ds).  
**N. pardalis** Wlk. Gloversville, Je (Alex); McLean, Michigan Hollow (Lloyd); Ramapo, Je (Ds).  
**N. postica** Wlk. Woodworth's L., Je (Alex); Castile, *Brad* (Sib); Ithaca, McLean, May-Je (Lloyd); Onteora Mt., Je (Caudell).  
**N. semifasciata** Say. Keene Val., Old Forge, Je-J1 (Bet); Mt. Marcy (NYS); Sacandaga Pk., Je (Alex); NYC, J1 (Ds).  
**N. stygipes** Hagen. Castile, *Brad* (Sib); McLean (Lloyd); **SI**, Ap (Ds).

## AGRYPNIA Curtis

- A. glacialis** Hagen. McLean, Sep (Sib).  
**A. straminea** Hagen. Saranac Inn, Aug (Bet).

## FAMILY LIMNEPHILIDAE

## ARCTOECIA McLachlan

- A. consocia** Wlk. Sacandaga Pk., Je (Alex); Ithaca, Je (Lloyd); McLean, J1-Sep (Sib).

## ASTENOPHYLAX McLachlan

- A. argus** Harr. Keene Val., N. Elba, Je; McLean, Michigan Hollow, Je (Lloyd); Oxford (Sib); **SI**, Je (Ds).

## CARBORIUS Navas

- C. punctatissimus** Wlk. Newport, Sep (Bet); Woodworth's L., Aug, *Alex* (Bks); McLean, Sep (Sib); Onteora Mt., Je, *How* (Caudell).

## LIMNEPHILUS Leach

- L. indivisus** Wlk. Pinnacle Mt., Gloversville, Jl-Aug (Alex); Castile, *Brqd* (Sib); Hamburg, Aug (EPV); Lancaster, Jl (Bet); McLean, Aug (Sib); Ithaca, May (Lloyd).  
**L. ornatus** Bks. Saranac Inn, Je (Bet); Castile, *Brad* (Sib); Onteora Mt., Je, *How* (Caudell).  
**L. pulchellus** Bks. McLean, May-Je (Sib).  
**L. rhombicus** L. McLean, Michigan Hollow, Je-Jl (Lloyd).  
**L. sublunatus** Prov. Axton (Bet).  
**L. submonilifer** Wlk. Mt. McIntyre, Je (Sib); Chazy L. (NYS); Ogdensburg, Newport, Pike, Albany, May-Je; Aug-Sep (Bet); Pinnacle Mt., Gloversville, Canada L., Je-Sep (Alex); Castile, *Brad* (Sib); McLean, Je (Sib). Should be a new genus in group of *Colpotaulius*.  
**L. sp.** Saranac Inn, Jl-Oct (Bet).  
**L. sp.** Old Forge, Ithaca, Aug (Bet).  
**L. sp.** Long L., Aug (Bet).  
**L. sp.** Ithaca (Bet).

## STENOPHYLAX Kolenati

- ?**S. divergens** Wlk. W. Hebron, Sep (Ds); Delaware Co?, Sep (Bks, Ds); Debruce, Sep (Ds).  
**S. gentilis** McL. McLean, Sep (Sib).  
**S. infernalis** Bks. Pinnacle Mt., Sep (Alex).  
**S. limbatus** McL. Mt. Marcy, Jl (Felt); Old Forge (Bet); Pinnacle Mt., Sep (Alex); McLean, Sep (Sib).  
**S. scabripennis** Ramb. Keene Val., Saranac Inn, Old Forge, Jl-Aug (Bet); Johnstown, Woodworth's L., May-Aug (Alex); Ithaca, McLean, Aug-Sep (Sib).

## HALESUS Stephens

- H. guttifer** Wlk. Saranac Inn, Keene Val., Wilmington, Aug (Bet); Michigan Hollow, Aug, Nov (Lloyd); McLean, Aug-Sep (Sib).  
**H. similis** Bks. Sacandaga Pk., Gloversville, Aug-Sep, *Alex* (Bks).

## PLATYPHYLAX McLachlan

- P. lepidus** Hagen. Livingston, Sep (Ds); McLean, Aug-Sep (Sib); W. Hebron, Sep, *CWLevy* (Ds); Palenville (Ds).  
**P. subfasciatus** Say. Gloversville, Aug (Alex); Ithaca (Bet).

## GLYPHOTAEIUS Stephens

- G. hostilis** Hagen. Ithaca (Lloyd); McLean (Sib).

## ANABOLIA Stephens

- A. bimaculata** Wlk. Old Forge, Keene Val., Tupper L., Jl (Bet).

## PLATYCENTROPUS Ulmer

- P. indistinctus** Wlk. Saranac Inn, Je, Aug (Bet).  
**P. maculipennis** Kol. Saranac Inn, Keene Val., L. Pleasant, Old Forge, Jl (Bet); Castile, Je, *Brad* (Sib); McLean, Jl-Aug (Lloyd, Sib); **SI**, Je, Aug (Ds).

## DRUSUS Stephens

- D. sparsus** Bks. (*calypso* Bks.). Catskills, Je (Bks); Onteora Mt., Je, *How* (Caudell); **LI**, May (Bks).  
**D. sp.** Hamburg, Ithaca, Jl (Bet). This and the preceding should form a new genus near *Drusus*.

## HESPEROPHYLAX Banks

- H. designatus** Wlk. McLean, Ap-Aug (Lloyd).

## LEPTOPHYLAX Banks

- L. gracilis** Bks. McLean, Je-Jl (Sib).

## GLYPHOPSYCHE Banks

- G. irrorata** Fab. Gloversville, Mar, *Bet* (Alex).

## CHILOSTIGMA McLachlan

- C. difficile** Wlk. N. Elba, Oct (Ds); Otto, Oct-Nov, *Bet* (Comst); McLean, Oct-Dec (Lloyd); **SI**, Nov-Dec (Bks, Ds).  
**C. pallidum** Bks. Ithaca (Bks); McLean, Nov (Sib).

## NEOPHYLAX McLachlan

- N. autumnus** Vorh. Gloversville, Pinnacle Mt., Johnstown (Alex); McLean, Sep, Nov (Lloyd, Sib). This may be the same as *concinus* McL.  
**N. concinns** McL. McLean, Sep, Nov (Lloyd, Sib).  
**N. fuscus** Bks. Ogdensburg, Sep (*How*); McLean, Sep (Sib).  
**N. sp.** Old Forge, Elizabethtown, Jl-Aug (Bet).

## APATANIA Kolenati

- A. incerta** Bks. **LI**: Sea Cliff, Ap (Bks).

## FAMILY SERICOSTOMATIDAE

## SUBFAMILY BRACHYCENTRINAE

## BRACHYCENTROPUS Curtis

- B. fuliginosus** Wlk. St. Lawrence R., May, *Bet* (Comst).  
**B. lutescens** Prov. Ithaca (Bks).  
**B. nigrosoma** Bks. Ithaca (Bks); McLean, May (Lloyd).

SUBFAMILY SERICOSTOMATINAE

AGARODES Banks

- A. grisea** Bks. Ogdensburg, Clayton, Je (Bet); Woodworth's L., as *Schisopclelex lobata* Bks., Je, *Alex*, type.

SUBFAMILY GOERINAE

GOERA Leach

- G. calcarata** Bks. Old Forge, Jl (Bet); Gloversville, Johnstown, Je, *Alex* (Bks); Ithaca, Ap-May (Lloyd); McLean, Je-Jl (Sib); **LI**: Sea Cliff, Jl (Bks).

SILO Curtis

- S. griseus** Hagen. Trenton Falls (OS).

SUBFAMILY LEPIDOSTOMATINAE

MORMOMYIA Banks

- M. vernalis** Bks. Castile, Je, *Brad* (Sib); McLean, May (Sib); **LI**: Sea Cliff, May (Bks).

ALEPOMYIA Banks

- A. wisconsinensis** Vorhies. Old Forge, Je, Aug (Bet); McLean, May (Sib).  
**A. sp.** Pike (Bet). Perhaps these two should be in a new genus, as the spurs are 2-4-4.

THELIOPSYCHE Banks

- T. parva** Bks. Woodworth's L., *Alex*, type.

OLEMIRA Banks

- O. americana** Bks. Woodworth's L., Aug, *Alex* (Bks); **LI**: Sea Cliff, Jl (Bks).  
**O. costalis** Bks. Ogdensburg, Old Forge, Jl-Aug (Bet); Woodworth's L., Aug (Alex); McLean, Sep (Sib).

PHANOPSYCHE Banks

- P. grisea** Bks. Ogdensburg, Aug (Bet); Woodworth's L., *Alex*, type; McLean, Aug-Sep (Sib).

LEPIDOSTOMA Rambur

- L. pallidum** Bks. Ithaca (Bks).  
**L. togatum** Hagen. Ogdensburg, Aug (Bet); Woodworth's L., Sacandaga Pk., Johnstown, Je-Aug, *Alex* (Bks).

SUBFAMILY HELICOPSYCHINAE

HELICOPSYCHE Hagen

- H. borealis** Hagen. Ogdensburg, Old Forge, Je-Jl (Bet); Johnstown, Sacandaga Pk., Mountain L., Je, *Alex* (Bks); Buffalo, Lancaster, Ithaca, Je-Jl (Bet); L. George (Sib); Nassau (Felt).



## ORDER LEPIDOPTERA

Compiled by W. T. M. Forbes

The following list of Lepidoptera of New York is based on a tentative list drawn up by the compiler in 1916. That preliminary list was prepared without memoranda of collector or determiner unless there was something highly unusual in the records; and it proved impracticable later to insert these in the limited time available, owing to the amount of labor which would be involved in going through the various records again. The names of the collectors to be credited with all or the great majority of records at certain of these places are presented here:

Albany, Lintner *et al.*; Batavia, Knight; Bath, Lintner; Big Indian Valley, Pearsall; Brockport, Bruce; Buffalo, Kellicott; Center, Lintner *et al.*; Clayton, Stebbins; DeBruce, Shoemaker; Evans Center, Grote; Fentons, Hill; Florida, S. W. Frost; Honeoye Falls, Leonard; Ilion, McElhose; Karner, Lintner *et al.*; Katonah, Beutenmüller; Lancaster, E. P. Van Duzee; Lewis County, Hill; Liberty and New Windsor, Emily Norton; Olivera, Pearsall; Onteora Mt., L. O. Howard; Otto, Comstock and Slingerland; Plattsburg, Hudson; Rensselaer and Schoharie, Lintner; Sharon, Meske; Staten Island, Davis; Stony Clove, Watson; Trenton Falls, Doubleday; Waddington, Woodruff; West Farms, Angus.

Most of the specimens have been seen and determinations verified by the compiler. There are incorporated, however, a considerable number of local lists of very variable quality, and the compiler has had to use his judgment in including or omitting records of species which have perhaps been misdetermined. He hopes that no species which are really members of the New York fauna have been omitted in this way, though doubtless a few really correct records of stragglers from other faunas have been overlooked. Additions to the preliminary list have been made largely by correspondence or by collections of the Cornell University entomologists, and the collector or the determiner has been cited in all records of any particular interest.

The dates and food plants given are gathered from a wide variety of sources and not wholly from New York material. The dates given at the end of the series of records for each species are intended to apply especially to central New York; dates for southern New York are usually earlier in the spring and later in the fall, and in many cases, where definite records are available, have been cited in detail. When New York dates were fragmentary or lacking, dates were taken from outside the State.

The first entomologist to make a considerable collection of the Lepidoptera of New York was Edward Doubleday, who visited for a time at Trenton Falls and published an account of his visit. Augustus Radcliffe

Grote was the first entomologist living in the State (at Evans Center) who worked especially on the Lepidoptera for a period of years. The collections of both these men are now in the British Museum. Doubleday's records were mainly published by Walker, while Grote published many records himself, besides those which were incorporated in Van Duzee's list of the Lepidoptera of the vicinity of Buffalo. In those families for which the British Museum material has been recently worked over in Hampson's *Catalogue of the Lepidoptera Phalaenae*, the records have been taken from this rather than from the earlier publications.

Manuscript of the list has been submitted to most of the lepidopterists of the State. There have thus been obtained many additional records from Mr. Davis in the entire order, from Messrs. Watson, Angle, and Bell in the butterflies, and from Mr. Wild in all groups but especially in the Microlepidoptera. Mr. Engelhardt has gone over the whole list, and has made numerous additions and corrections, but especially in the *Ægeriidae*, and Mr. Bird has similarly concentrated on the *Papaipema* group. We are particularly indebted to Mr. Angle for allowing us to incorporate a manuscript list of the *Rhopalocera* of the State, with many records.

The arrangement of families follows the synopsis in Memoir 68 of the Cornell University Agricultural Experiment Station, pages 34 to 44. For the species also that memoir is followed, with some corrections, as far as it goes—that is, through the *Drepanidae*. Beyond this point the order within each family is approximately that of Barnes and McDunnough's check list, sometimes reversed in order to start each family with the recognized primitive forms. The numbers attached are those of Barnes and McDunnough's list, more recently recognized segregates being designated by decimal numbers, and other recently described species by a dash in the number column.

County records are cited only when no more specific records from the county are at hand, save in the case of a few records from economic sources, where the citation is "——— Co, generally." In such cases the species is believed to occur wherever the food plant is commercially grown in the county. Local lists are treated similarly where detailed localities are not given in them, except in the case of Staten Island, which is generally taken as a unit.

In all, 2439 named forms are recognized as more or less authentically reported from the State, besides a few very doubtful ones passed over in footnotes. Of these, 169 are treated as varieties and 2270 as apparently valid species. There are also 11 undescribed Microlepidoptera of more than usual interest, mentioned in the list.

## SUBORDER JUGATAE

## FAMILY MICROPTERYGIDAE

## MICROPTERYX Hübner

- 8481 *M. auricrinella* Wlsm. Mt. Marcy, 4000 ft. (*Fbs*) and *Wehrle*; Keene, *Wild* (*Fbs*); Caroline-Harford. May-Jl.

## FAMILY ERIOCRANIIDAE

## ERIOCRANIA Zeller

- 8477 *E. auricyanea* Wlsm. Karner (empty mine), Mar-Apr. Oak, chestnut, and chinquapin.

## FAMILY HEPIALIDAE: THE SWIFTS

## STHENOPSIS Packard

- 8482 *S. argenteomaculatus* Harr. Castile, *Brad*; Catskills; LI: Glendale; former breeding places in red maple and alder swamps near Brooklyn have been destroyed; not taken for thirty years (*Eng*). Midsummer. Alder.
- 8483 *S. purpurascens* Pck. form *quadriguttatus* Grt. Adirondack Lodge, *Bish* (*Fbs*); Lancaster, Buffalo (*EPV*); Albany.
- 8485 *S. auratus* Grt. Fentons; Lancaster; Ithaca; McLean; Granville, Jl 4 (*Eng*); summit of Catskills, Jl.
- 8484 *S. thule* Strk. Waddington, Jl, *Wood*.

## HEPIALUS Fabricius

- 8490 *H. gracilis* Grt. Allegany Pk., Aug 23, *Wild* (*Fbs*).

## SUBORDER FRENATAE

## FAMILY INCURVARIIDAE

## TEGETICULA Zeller

- 8471 *T. yuccasella* Rly. Ithaca (*Fbs*); LI, May-Jl. *Yucca filamentosa*.

## INCURVARIA Haworth

- 8430 *I. russatella* Clem. Ithaca. May; Jl.
- 8429 *I. taylorella* Kf. Newcomb. May; Jl. Ribes.

## PARACLEMENSIA Dyar

- 8443 *P. acerifoliella* Fitch. St. Lawrence Co, generally; Black Br.; L. George (*NYS*); West Falls, *Wild* (*Fbs*); Ithaca; McLean; Deposit; Bolton (*Felt*); Albany. Maple.

## ADELA Latreille

- 8449 *A. ridingsella* Clem. Rock City; Ithaca. Je-Jl.
- 8454 *A. purpura* Wlk. Cranberry Cr., Ap.
- 8457 *A. bella* Cham. Gowanda (*Wild*); Crugers. Je.

## FAMILY NEPTICULIDAE

## ECTOEDEmia Busck

- 8422 **E. heinrichi** Bsk. E. Aurora, Je (*Wild*).

## NEPTICULA von Heyden

- 8384 **N. slingerlandella** Kf. PLUM LEAF-MINER. Rochester. Plums and prunes, wild plum (*Prunus americana*), and occasionally sweet cherry.  
 8383 **N. pomivorella** Pck. APPLE SERPENTINE LEAF-MINER. Castile, Je, *Brad* (Fbs); Albion; Geneva. Apple.  
 8373 **N. latifasciella** Cham. E. Aurora, Je, *Wild* (Braun).

## FAMILY MEGALOPYGIDAE

## MEGALOPYGE, Hübner

(*Lagoa* Harris)

- 4858 **M. opercularis** S. & A. A stray has been found at Ithaca.  
 4861 **M. crispata** Pck. FLANNEL MOTH. Le Roy (CU Econ); Onteora Mt.; New Baltimore; Bethlehem; Karner; Albany; Rhinebeck; Poughkeepsie; New Windsor; Rye; Croton-on-Hudson; Katonah; **SI**; **LI**: Brooklyn, Woodhaven, etc. Je-Jl. Various shrubs and trees.

## FAMILY EUCLEIDAE

## PHOBETRON Hübner

- 4832 **P. pithecium** S. & A. HAG-MOTH. Bolton (larvae); New Haven, Albion (NYS); McConnellsville (CU Econ); Canandaigua (NYS); Lockport (NYS); Niagara Falls; E. Aurora, Buffalo; Sodus (NYS); Oswego; Lancaster; Randolph (CU Econ); Castile, *Brad*; Otsego (CU Econ); St. Johnsville (NYS); Hudson Val., from Rensselaer south; **LI**: Aug-Sep. A general feeder on shrubs.

## ISOCHAETES Dyar

- 4833 **I. beutenmulleri** H. Edw. **SI**, pin oak (Joutel).

## SIBINE Herrich-Schaeffer

- 4812 **S. stimulea** Clem. SADDLE-BACK. Poughkeepsie; Highland Falls, Ossining, Athens, Catskill, Cementon, Kingston, Spring Val., Scarsdale (NYS); Rye; NYC; **SI**; **LI**: Brooklyn; Woodhaven; Millneck (NYS). On various trees; Indian corn, etc. (Ds).

## EUCLEA Hübner

- 4816 **E. delphinii** Bdv. Plattsburg; Peru. Je-Jl. The typical form, with varieties *interjecta* Dyar and *viridiclava* Wlk., is rather common southward. Variety *elliotii* Pears. is recorded from Big Ind. Val.; also **LI**: Coney I.; Glendale; Maspeth (Olsen); Wyandanch, Wading R. (Ds). Variety *paenulata* Clem. is reported from NY by Pck. Various trees and shrubs.

## PARASA Moore

- 4813 *P. indetermina* Bdv. New Rochelle (NYS); **SI**; **LI**: Woodhaven, etc. Feeds on apple and many other trees and shrubs.  
 4814 *P. chloris* H-S. New Windsor; Rye, J1 (Ds); **SI**; **LI**: Forest Pk.; Brooklyn.

## ADONETA Clemens

- 4824 *A. spinuloides* H-S. (*leucosigma* Pck.). Albany; New Windsor; **SI**; **LI**: Pinelawn; Yaphank. J1-Aug. Various shrubs.

## SISYROSEA Grote

- 4828 *S. textula* H-S. General from Plattsburg southward. J1-early Aug. Wild cherry and many other shrubs.

## NATADA Walker

- 4830 *N. nasoni* Grt. **LI**: Ronkonkoma; Yaphank. Oak and other trees.

## PROLIMACODES Schaus

- 4827 *P. badia* Wlk. (*scapha* Harr.). BEECHNUT BOX. Grand I., E. Aurora (*Wild*); Geneva; Ithaca; Karner; Florida; Rhinebeck; West Haverstraw (NYS); **SI**; **LI**: Brooklyn, E. New York, Lynbrook, Newtown, etc. Judging from the larvae seen, the species will prove much more widespread. J1-Aug. Various trees and shrubs.

## COCHLIDION Hübner

- 4839 *C. biguttata* Pck. Plattsburg; Ithaca; **SI** (Ds); **LI**: Ronkonkoma; Yaphank. Je-J1. Oak only.  
 4840 *C. rectilinea* G. & R. Vic. NYC (Bt, G&R). Northern records are perhaps based on *C. latomia*.  
 4840.1 *C. latomia* Harv. "NY."  
 4841 *C. y-inversa* Pck. Batavia; Lewiston; Buffalo; Ithaca; Rogers Rock, L. George, *Jones*; Big Ind. Val.; Poughkeepsie; New Windsor; NYC; **SI**; **LI**. J1. Hickory and blue beech.

## TORTRICIDIA Packard

- 4852 *T. flexuosa* Grt. E. Aurora and W. Falls (*Wild*); Ithaca; McLean; DeBruce; Big Ind. Val.; Onteora Mt.; Ilion; Sharon Sps.; Rhinebeck; Poughkeepsie; Windsor; Bronx Pk.; **LI**. J1. The dark form, *caesonia* Grt., is known from Big Ind. Val., Coeymans, and Poughkeepsie.  
 4853 *T. pallida* H-S. Plattsburg; Keene Valley; Ithaca; McLean; Rye; **SI**; **LI**: Brooklyn; Bellport; Coram, *Kch* (Fbs). J1. Willow oak and other shrubs.  
 4854 *T. testacea* Pck. Plattsburg; Saranac L.; Red L.; E. Aurora (*Wild*); Ithaca; McLean; Big Ind. Val.; Nyack, Aug, Ft. Montgomery, May (Ds); Rye; **SI**; **LI**: Merrick, Je (Eng). Oak, birch, wild cherry, etc.



## HETEROGENEA Knoch

- 4847 *H. shurtleffi* Pck. Vic. NYC (Eliot, Angus).

## LITHACODES Packard

- 4842 *L. fasciola* H-S. Newport (NYS); Rochester (Angle); Buffalo; S. Wales, E. Aurora (*Wild*); Castile, *Brad*; Geneva; Ithaca; McLean; Rogers Rock, L. George, *Jones*; Schenectady; the southern Catskills; Rye; **SI** (Ds); **LI**: Greenport (Ds); Orient, *Lath.* Jl-Aug. Basswood.

## PACKARDIA Grote and Robinson

- 4843 *P. elegans* Pck. Goat I.; E. Aurora; Ithaca; McLean; Newburgh; New Windsor; Katonah; NYC; **LI**. Je-Jl. On thin, shaded leaves of trees in dense woods.
- 4845 *P. geminata* Pck. Castile, Je, *Brad* (Fbs); Gowanda, Orchard Pk. (*Wild*); Rye (Bird); **LI**: Forest Pk.; Brooklyn. Je. On very small shrubs only a few inches high, especially on wild cherry.
- 4846 *P. albipunctata* Pck. Karner; Dutchess Co; Ft. Montgomery, May (Ds).

## FAMILY PYROMORPHIDAE

## ACOLOITHUS Clemens

- 4876 *A. falsarius* Clem. Syracuse; Ithaca; Rhinebeck; Crugers; **LI**: Centerport; L. Ronkonkoma. May-Je. Grape and ampelopsis.

## PYROMORPHA Herrich-Schaeffer

- 4867 *P. dimidiata* H-S. Coy Glen, Ithaca; West Pt. (Ds); **SI**; **LI**: Brooklyn; Pennequid (Eng). End of May-Jl.

## HARRISINA Packard

- 4881 *H. americana* Guér. Troy; Poughkeepsie; **SI**. May-Aug. Grape.
- 4881.1 *H. texana* Stretch. Poughkeepsie; Ft. Montgomery (Ds); **SI** (Ds); **LI**: Woodhaven; Yaphank; Wading R. (Ds); Orient, *Lath.* Je-Aug. Grape.

## FAMILY TINEIDAE

## SUBFAMILY ACROLOPHINAE

## ACROLOPHUS Poey

- 8192 *A. arcanelus* Clem. Rhinebeck, Fordham (Dy); **SI**, *Bt* (Dy). Je-Jl. Corn.
- 8170 *A. plumifrontellus* Clem. Hastings (Grt); Parksville (Bt); **LI**: Forest Pk., *Kch.* Jl.
- 8195 *A. mora* Grt. Niagara Falls and E. Aurora (*Wild*); **LI**: Woodhaven, Forest Pk., late Sep-Oct, *Kch* (Fbs).

## SUBFAMILY TINEINAE

## SCARDIA Treitschke

- 8231 *S. approximatella* Dietz. Lime L. (Wild); Ithaca; McLean. Jl-Aug. The larva has been found in a rotting sycamore log.  
 8223 *S. anatomella* Grt. Buffalo (Wild), Je-Jl.

## TINEA Linnaeus

- 8247 *T. misella* Z. Alexandria Bay, Thousand Isls., Je, *Kch* (Fbs).  
 8248 *T. obsкуроstrigella* Cham. McLean. May; Jl-Aug; Oct.  
 8254 *T. trimaculella* Cham. Otto, Jl.  
 8249 *T. fuscipunctella* Haw. Ithaca, Jl, a scavenger in birds' nests, *Dobroscky* (Fbs).  
 8258 *T. pellionella* L. OLD-FASHIONED CLOTHES MOTH. Louisville; Canandaigua; Alfred Center. The larva is one of the clothes moths.  
 8257 *T. grumella* Z. Ithaca, Aug-Sep.  
 8271 *T. ophrionella* Dietz. Uphill Br., Mt. Marcy, Je; E. Aurora, Jl, *Wild* (Braun).  
 8281 *T. tylodes* Meyr. (*arcella* auct.). Riceville, Cattaraugus Co (Wild); Ithaca (Dietz, Fbs). Jl. Larva on fungi under bark of dead alder twigs.  
 8282 *T. auropulvella* Cham. Buffalo (Wild); Ithaca; McLean. Je-Aug.  
 8283 *T. acapnopennella* Clem. E. Aurora, Gowanda, Buffalo, Rock City (Wild); Ithaca; Albany. Je-Aug. Larva on *Polyporus tulipiferus*.  
 8289 *T. granella* L. EUROPEAN GRAIN-MOTH. Batavia; Castile, Je, *Brad* (Fbs); Ithaca; Albany; **LI**: Orient, *Lath*. Aug. Grain, dried fruits, bracket fungi, and similar substances.

## TRICHOPOHAGA Ragonot

- 8284 *T. tapetzella* L. CASE-BEARING CLOTHES MOTH. **SI**: New Dorp (Ds). A clothes moth and general scavenger, often breeding in owl pellets.

## MONOPIS Hübner

- 8243 *M. irrorella* Dietz. Otto; Ithaca. Je; Aug.  
 8241 *M. dorsistrigella* Clem. E. Aurora, Chautauqua L. (Wild); Ithaca; **LI**: Sea Cliff. Je-Jl.  
 8242 *M. crocicapitella* Clem. E. Aurora, Buffalo (Wild); Ithaca; Morrisania, NYC; **SI**: Clove Valley; **LI**: Glendale, *Kch* (Fbs). Jl-Oct. The larva has been bred from seeds of absinth and from refuse.  
 8238 *M. biflavimaculella* Clem. Peru; Wilmington; E. Aurora (Wild); Castile, *Brad*; Ithaca; McLean; Big Ind. Val. Je-Sep.  
 8239 *M. marginistrigella* Cham. E. Aurora, Je, *Wild* (Braun).  
 8237 *M. rusticella* Hbn. Ithaca, probably introduced. May-midsummer; again in autumn.

## TINEOLA Herrich-Schaeffer

- 8298 **T. biselliella** Hummel. COMMON CLOTHES MOTH. Abundant everywhere. The commonest of the clothes moths.

## ISOCORYPHA Dietz

- 8444 **I. mediotriatella** Clem. E. Aurora, Aug 29, *Wild* (Fbs).

## DIACHORISIA Clemens

- 8307 **D. argentistrigella** Cham. Ithaca, J1, *Fbs* (Busck).  
 8312 **D. costisignella** Clem. E. Aurora (*Wild*); Ithaca (Dietz). Je-J1.  
 8313 **D. fasciella** Cham. Chautauqua L., Je, *EPV* (Fbs); Ithaca, J1, *Fbs* (Busck).

## CHOROPLECA Walsingham and Durrant

- 8246 **C. vesaliella** Cham. "NY" (Dietz). Je.

## HYBROMA Clemens

- 8301 **H. servulella** Clem. E. Aurora, *Wild* (Fbs); Ithaca. Je-Aug.

## XYLESTHIA Clemens

- 8234 **X. pruniramiella** Clem. E. Aurora (*Wild*); Ithaca; McLean; West Farms; LI: Glendale, *Kch* (Fbs). May-Aug. The larva mines in woody excrescences on plum.

## AMYDRIA Clemens

- 8197 **A. effrenatella** Clem. Ithaca; LI: Orient, *Lath.* Je, Aug.

## FAMILY PSYCHIDAE

## SOLENOBIA Zeller

- 4809 **S. walshella** Clem. Lockport, *L. M. Downer* (Fbs, *Wild*); Niagara Falls, *Wild* (Braun); E. Aurora, *Wild* (Fbs); Ithaca; Bronxville (Wood). Ap-May. On lichens on trunks of trees.

## EURYCYTTARUS Hampson

- 4803 **E. confederata** G. & R. Ithaca; New Baltimore; SI; LI: Newtown. On low plants.

## THYRIDOPTERYX Stephens

- 4798 **T. ephemeraeformis** Haw. BAG WORM. Geneva (cases); Ft. Edward; New Baltimore; Rye (Bird); Mt. Vernon; Yonkers (CU Econ); NYC; SI; LI, general. Introduction attempted, but species not able to survive at Ithaca though a pest on SI and LI. On various trees and shrubs, even arbor vitae and other evergreens, sometimes injurious.

## FAMILY TISCHERIIDAE

## TISCHERIA Zeller

- 7873 *T. malifoliella* Clem. APPLE TRUMPET LEAF-MINER. E. Aurora, *Wild* (Fbs); Schenectady; Menands; E. Greenbush; NYC (CU Econ). The larval work is seen throughout the State, but I have seen no other records. May. Apple.
- 7863 *T. solidaginifoliella* Clem. McLean; Albany. Aug. Solidago.
- 7861 *T. tinctoriella* Cham. Albany (NYS). Oak.
- 7857 *T. citrinipennella* Clem. Crosby; Ithaca. Aug. Oak.
- 7859 *T. albotraminea* Wlsm. "NY" (type), Aug. White oak.
- 7876 *T. zelleriella* Clem. OAK TRUMPET LEAF-MINER. "NY" (HEdw). Mar-Apr. Oak.

## FAMILY LYONETIIDAE

## BEDELLIA Stainton

- 8120 *B. somnulentella* Z. NYC (Lint). Aug; mid-Sep to spring. Ipomoea.

## PHYLLOCNISTIS Zeller

- 8110 *P. populiella* Cham. Hemlock L. (bred). Aspen and other poplars.
- 8111 *P. vitifoliella* Cham. "NY" (Bt). Grape.
- 8112 *P. vitigenella* Clem. E. Aurora (*Wild*). May; Oct.

## BUCCULATRIX Zeller: THE RIBBED-COCOON MAKERS

- 8133 *B. niveella* Cham. Rock City.
- *B. errans* Braun. var. McLean, Jl 30.
- 8141 *B. ainsliella* Murt. Ithaca, Aug (Fbs). Oak.
- 8135 *B. pomifoliella* Clem. RIBBED-COCOON MAKER OF THE APPLE. Common everywhere in NY. Je. Apple.
- 8125 *B. canadensisella* Cham. BIRCH LEAF-SKELETONIZER. Ogdensburg; L. Placid; Ausable Forks; Keene; Scottsville; Protection (*Wild*); Ithaca; Albany; Karner; Kinderhook; SI. Je-Jl. White birch.
- 8153 *B. crescentella* Braun. Otto; Florida. Jl. Aster, Solidago, and Erigeron.
- 8139 *B. trifasciella* Clem. E. Aurora, May, *Wild* (Braun).
- *B. cuneigera* Meyr. E. Aurora, Jl, *Wild* (Braun).
- *B. fuscicola* Braun. E. Aurora, Jl, *Wild* (Braun).

## PHILONOME Chambers

- 8101 *P. clemensella* Cham. "NY" (Bt). Jl. Hickory and linden.

## FAMILY OPOSTEGIDAE

## OPOSTEGA Zeller

- 8419 *O. albogaleriella* Clem. Otto; Geneva; McLean. Jl-Aug. Bast miner on gooseberry and on red and black currant.
- O. albogaleriella* var. *quadristrigella* Cham. McLean, Jl (Fbs).

## FAMILY GRACILARIIDAE

## PARORNIX Spuler

## (Ornix)

- 8023 *P. inusitatumella* Cham. E. Aurora, May-Je (*Wild*).  
 8013 *P. guttea* Haw. E. Aurora, Je (*Wild*).  
 8018 *P. crataegifoliella* Clem. E. Aurora, J1 (*Wild*). Cherry.

## GRACILARIA Haworth

- 8041 *G. sassafrasella* Cham. Ithaca, J1-Aug. Sassafras.  
 8042 *G. rhoifoliella* Cham. E. Aurora; Ithaca; McLean. J1-Aug. *Rhus toxicodendron* and *R. copallina*.  
 — *G. elongella* L. Cranberry L., *Htly* (Fbs); Wilmington; Mt. Whiteface; McLean. Alder; wild cherry (*Htly*).  
*G. pulchella* Cham. Lancaster, Sep (*Wild*); Cranberry L., *Htly* (Bsk). Yellow birch.  
 8057 *G. burgessiella* Z. Ithaca; McLean. J1-Aug. Cornus.  
 8066 *G. cornusella* Ely. Buffalo (*Wild*); Ithaca. Ap; Aug. Cornus.  
 8065 *G. bimaculatella* Ely. Lancaster, Rock City (*Wild*); Ithaca. Red and soft maple.  
 8059 *G. packardella* Cham. E. Aurora (*Wild*); Ithaca. J1-Aug. Sugar maple.  
 8061 *G. purpuriella* Cham. Buffalo, E. Aurora, *Wild*; Ithaca; LI: Forest Pk., Aug, *Kch* (Fbs). Aug; Oct-Apr. Willow and poplar.  
 8040 *G. negundella* Cham. E. Aurora, *Wild* (Braun); Ithaca. J1-Aug; Oct-early spring. *Acer negundo*.  
 8056 *G. azaleella* Brants. (*azaleae* Bsk.). AZALEA LEAF-ROLLER. Rochester; Lockport (NYS); Yonkers. Evergreen azaleas.  
 8054 *G. superbifrontella* Clem. West Falls (*Wild*); Crosby; Ithaca. May-Sep. Hamamelis.  
 8071 *G. fraxinella* Ely (*Coriscium*). Ithaca, J1-Sep, May (the latter were doubtless specimens which had emerged in the preceding fall). Ash and apple.  
 8010 *G. serotinella* Ely (*Parectopa*). Ithaca, J1-early Sep. *Prunus serotina*.

## ACROCERCOPS Wallengren

- 7997 *A. strigifinitella* Clem. Hamburg; Gowanda, E. Aurora, *Wild* (Fbs). Je. Breeds continually all summer. Chestnut, chinquapin, oak, and beech.  
 8001 *A. astericola* Frey & Boll. Castile, Je, *Brad* (Fbs); Ithaca, May-Aug. *Aster corymbosus*, etc.  
 7993 *A. albinotella* Cham. "NY" (Bt). Ap-Je; Aug. Oak.  
 7991 *A. venustella* Clem. Ithaca, Aug 30. Late J1-Sep. Eupatorium.

## MARMARA Clemens

- 8033 *M. elotella* Bsk. Larval work has been seen in this State under bark of apple twigs and under skin of fruit. The species is apparently rather widely distributed in the apple belt of western NY, and possibly to a somewhat lesser extent in that of the Hudson R.



## PARECTOPA Clemens

8011. *P. salicifoliella* Cham. Lancaster, Sep, *Wild* (Braun).  
 8003 *P. robiniella* Clem. Ithaca (mines not rare). In a digitate mine on locust.  
 8006 *P. pennsylvaniella* Engel. Castile, Je, *Brad* (Fbs); Ithaca; McLean. May-Oct. *Aster cordifolius*.  
 8000 *P. plantaginisella* Cham. E. Aurora, *Wild* (Braun). Jl. Fleabane (*Wild*).

## CREMASTOBOMYCIA Braun

- 7974 *C. ignota* Frey & Boll. Salamanca, Jl (*Wild*). Compositae.

## LITHOCOLLETIS Hübner

- 7877 *L. fitchella* Clem. Albany. Oak.  
 7885 *L. argentifimbriella* Clem. Ithaca, Aug. Oak, especially white oak.  
 7886 *L. lucidicostella* Clem. Buffalo, May (*Wild*). Sugar maple.  
 7879 *L. hageni* Frey & Boll. Buffalo, May (*Wild*). Oak.  
 7891 *L. ostryaefoliella* Clem. Ithaca, Aug; E. Aurora, Buffalo, May (*Wild*). Hop hornbeam.  
 7898 *L. propinquella* Braun. E. Aurora, May (*Wild*). *Prunus serotina*.  
 7899 *L. crataegella* Clem. "NY" (Bt). Rosaceae.  
 7932 *L. salicifoliella* Clem. Buffalo (*Wild*); Ithaca. Aug-Sep. Poplar and willow.  
 7917 *L. morrisella* Fitch. Delmar (NYS). Amphicarpa.  
 7915 *L. robiniella* Clem. Ithaca (CU). Locust.  
 7902 *L. argentinotella* Clem. Buffalo, *Wild* (Braun). Elm.  
 7894 *L. basistrigella* Clem. E. Aurora, Buffalo, Ap (*Wild*). Oak.  
 7920 *L. lucetiella* Clem. E. Aurora, Jl; Ithaca, Aug. Basswood.  
 7969 *L. desmodiella* Clem. Big Ind. Val. Desmodium, etc.  
 7923 *L. ostensackenella* Fitch. E. Aurora, Jl (*Wild*). Locust (*Robinia Pseudo-Acacia*).  
 7924 *L. tritaenianella* Cham. Buffalo, May. Hop hornbeam.  
 7928 *L. fragilella* Frey & Boll. HONEYSUCKLE LEAF-MINER. Honeoye Falls, *Leon* (Braun). Honeysuckle.  
 7921 *L. tiliacella* Cham. Ithaca, Aug. Basswood.  
 7942 *L. hamadryadella* Clem. WHITE-BLOTCH OAK LEAF-MINER. Syracuse (NYS); Buffalo, Grand I., Niagara Falls, May-Jl (*Wild*); Ithaca, Aug; Albany; New Hamburg, Crugers I., Coeymans, Goshen, Garrison, Sloatsburg, Mt. Vernon (NYS); **LI**: Forest Pk., May, *Kch* (Fbs). Oak, especially *Quercus alba*, and rarely, perhaps accidentally, on Magnolia and Ostrya.  
 7941 *L. cincinnatiella* Cham. New Baltimore (NYS).  
 7938 *L. lentella* Braun. E. Aurora, May (*Wild*); Ithaca, Jl-Aug. Birch and hop hornbeam.  
 7951 *L. cervina* Wlsm. "NY" (type).  
 7961 *L. guttifinitella* Clem. Buffalo, Jl (*Wild*). Poison ivy.  
 7962 *L. obstrictella* Clem. E. Aurora, Jl (*Wild*). Poison ivy.

- 7964 *L. aesculisella* Cham. S. Wales; Gowanda, Je-Jl (*Wild*). Buckeye.  
 7966 *L. aceriella* Clem. S. Wales (*Wild*); Ithaca, Jl. Maple, most commonly red maple.  
 7965 *L. ostryarella* Cham. E. Aurora, Jl (*Wild*). Ironwoods.

## FAMILY COLEOPHORIDAE

## COLEOPHORA Hübner: THE CASE-BEARERS

- 7757 *C. cerasivorella* Pck. E. Aurora, Chautauqua L., Tonawanda (*Wild*). Je-Jl. Wild cherry.  
 7768 *C. fletcherella* Fern. CIGAR CASE-BEARER. Buffalo, E. Aurora, Je-Jl (*Wild*); Chautauqua Co (CU Econ); Oswego Co; S. Byron; Monroe Co; Albion (Felt); Geneva; Ithaca; Albany. Je-Jl (*Wild*). Apple, pear, and hawthorn (*Wild*).  
 7775 *C. laricella* Hbn. LARCH CASE-BEARER. E. Aurora, May-Je (*Wild*); Ithaca; Karner; Albany. Larch.  
 7802 *C. unicolorella* Cham. Buffalo and E. Aurora, May-Je (*Wild*). Juncus.  
 7785 *C. pruniella* Clem. Orchard Pk., Oct (*Wild*).  
 7759 *C. cinerella* Cham. Cranberry L., *Htly* (Bsk).  
 7762 *C. coruscipennella* Clem. E. Aurora, Gowanda (*Wild*); Ithaca; McLean; LI: Forest Pk., Glendale, *Kch* (Fbs). May-Aug.  
 — *C. spissicornis* Haw. "NY". Reported by Zeller, no doubt in error for *coruscipennella*. Clover.  
 7792 *C. rosacella* Clem. E. Aurora, Je (*Wild*). Rose.  
 7754 *C. albiantennaella* Wild. Buffalo, Je-Jl (*Wild*). Dogwood.  
 7751 *C. caryaefoliella* Clem. E. Aurora; Ithaca. Je-Jl. Hickory and pecan.  
 7788 *C. ostryae* Clem. E. Aurora, Je (*Wild*). Hornbeam.  
 7776 *C. limosipennella* Dup. (*laticornella* Clem.). Cranberry L., *Htly* (Bsk); E. Aurora, Jl (*Wild*); Ithaca; Karner; NYC; LI: Oyster Bay, Oakdale (Felt); Brooklyn (Bsk). Elm; hickory (*Wild*).  
 7764 *C. cratipennella* Clem. E. Aurora, Gowanda, May-Jl (*Wild*).  
 7758 *C. caespitiella* Z. LI: Coney I.; Flatbush, New Lots (Zab). Seeds of Juncus.  
 7803 *C. vernoniaella* Cham. McLean, Je-Jl. Vernonia and Helianthus.  
 7769 *C. fagisticicella* Cham. (*lineapulvella* Cham.). E. Aurora, Gowanda  
 7778 (*Wild*). Je-Jl. Chestnut (*Wild*).  
 7811 *C. vagans* Wlsm. "NY" (type). Aug. Grass.  
 7777 *C. leucochrysella* Clem. Gowanda, *Wild*. Je. Chestnut.  
 7800 *C. tiliaefoliella* Clem. E. Aurora, Gowanda, Buffalo, *Wild*; Ithaca, Jl. Je-Jl. Basswood (*Wild*); linden.  
 7781 *C. malivorella* Rly. PISTOL CASE-BEARER. Walworth; Orleans Co; S. Byron; Geneva; Lansing. Early Jl. Apple.  
 7791 *C. querciella* Clem. Albany; LI (Hein). Je. Oak.  
 — *C. atlantica* Hein. E. Aurora, Je-Jl (*Wild*). Wild cherry.

## FAMILY CYCNODIIDAE

(Elachistidae)

## APHELOSETIA Stephens

(Elachista)

- 7827 **A. orestella** Bsk. Peru; Perry; E. Aurora (*Wild*); Ithaca; McLean.  
May-Sep. *Hystrix*.  
— **A. cucullata** Braun. Ithaca, May-early Je. *Carex jamesii*.  
7844 **A. albicapitella** Engel. E. Aurora, Je (*Wild*).  
— **A. n. sp.** near *trapeziella*. Buffalo, Jl, *Wild*.

## FAMILY DOUGLASIIDAE

## TINAGMA Zeller

- 7848 **T. obscurolfasciella** Cham. Black Br.; Rock City. May.

## FAMILY HELIOZELIDAE

## ANTISPILA Hübner

- 7581 **A. hydrangiaeella** Cham. West Falls, Jl, *Wild* (Fbs).  
7578 **A. ampelopsiella** Cham. Ft. Edward, Aug. *Ampelopsis*.  
7583 **A. nyssaefoliella** Clem. Buffalo, E. Aurora, Gowanda (*Wild*); Mohonk L.  
(larvae); Glens Falls; NYC (Lint); **LI**: Orient, *Lath* (NYS). May  
and Je.  
7582 **A. isabella** Clem. Buffalo, Jl, E. Aurora, Je, *Wild* (Fbs).

## COPTODISCA Walsingham

- 7595 **C. splendoriferella** Clem. RESPLENDENT SHIELD-BEARER. Ithaca; E. Green-  
bush; Albany; Fishkill. *Crataegus*, wild cherry, and apple.

## FAMILY OECOPHORIDAE

## MARTYRINGA Busck

- 6412 **M. latipennis** Wlsm. Ithaca, Jl-Aug.

## EUMEYRICKIA Busck

- 6414 **E. trimaculella** Fitch. Upper Ausable L.; Keene (*Wild*); E. Aurora,  
Salamanca (*Wild*). Je-Jl.

## GERDANA Busck

- 6416 **G. carietella** Bsk. E. Aurora, *Wild* (Braun); Ithaca; McLean. Jl-Aug.

## CRYPTOLECHIA Zeller

- 6424 **C. tentoriferella** Clem. Potsdam; Rochester (Angle); E. Aurora (*Wild*);  
Ithaca; McLean; Big Ind. Val.; Schenectady; Karner; Rhinebeck;  
New Windsor; NYC; **SI**; **LI**: Glendale, Woodhaven, *Kch* (Fbs);  
Orient (*Lath*). Late Aug-Oct. Oak, cherry, maple (?), chestnut, etc.

## PSILOCORISIS Clemens

- 6425 **P. quercicella** Clem. Buffalo, Salamanca (*Wild*); New Windsor, Morton. Mar–Ap; Jl. Oak and chestnut.  
 6426 **P. obsoletella** Z. Ithaca. Oak and chestnut.  
 6427 **P. reflexella** Clem. Ithaca; McLean. Je–Jl. Oak.  
 6430 **P. ferruginosa** Z. Otto.

## AGONOPTERYX Hübner

(*Depressaria*, in part)

- 6433 **A. atrodorsella** Clem. Fentons; E. Aurora, Buffalo (*Wild*); Crosby; Castile, Brad; Ithaca; McLean; Gloversville (Alex); Delmar; Schenectady; New Windsor; **SI**: Sep–Je. Bidens.  
 6437 **A. canella** Bsk. Wilmington; E. Aurora, *Wild* (Fbs); Catskills. Jl–Sep. The related European species, *alstroemeriana*, feeds on Conium.  
 6449 **A. pulvipennella** Clem. Fentons; E. Aurora, Lancaster, Riceville (*Wild*); Ilion; Crosby; Ithaca; McLean; Schenectady; **LI**: Orient, *Lath* (NYS). Sep–May; Jl. Eupatorium and Solidago.  
 6459 **A. argillacea** Wlsm. E. Aurora, *Wild* (Fbs); Ithaca. Mar; Sep. This species is the American representative of *yeatiana*, which eats Umbelliferae.  
 6447 **A. applana clemensella** Cham. E. Aurora (*Wild*); Ithaca; New Windsor. Aug–Ap. Parsnip and wild parsnip (Heracleum).  
 6443 **A. walsinghamella** Bsk. Albany. Myrica.  
 6456 **A. plummerella** Bsk. Rock City.  
 — **A. n. sp.** Ithaca, Ap.  
 6445 **A. curvilineella** Bt. E. Aurora (*Wild*); NYC. Oct–Ap.  
 6468 **A. lythrella** Wlsm. McLean, Jl–Aug. *Lythrum alatum*.  
 6463 **A. flavicomella** Engel. Ithaca, Je–Jl.  
 6471 **A. robiniella** Pck. E. Aurora (*Wild*); Schenectady; Bridgetown; Rhinebeck; Crugers; Katonah. Jl. Robinia.  
 6472 **A. lecontella** Clem. Ithaca; Schenectady; New Windsor; **LI**: Sea Cliff; Glendale, Sep, *Kch* (Fbs); Orient, *Lath*.  
 6489 **A. allenella** Wlsm. (*Semioscopis*). Keene, E. Aurora (*Wild*); McLean; Rhinebeck; **LI**: Cold Sp., *Kch* (Fbs). Je–Jl. Oak.

## DEPRESSARIA Haworth

- 6479 **D. groteella** Robn. "NY" (Robn). Corylus.  
 6482 **D. cinereocostella** Clem. "NY" (Bsk). Jl. Water parsnip (Sium) and caraway.  
 6480 **D. betulella** Bsk. Ithaca, Aug (Fbs).  
 6478 **D. heracliana** DeG. PARSNIP WEBWORM. E. Aurora, Irving (*Wild*); Bath (CU Econ); Crosby; Ithaca; Albany; Greenville (NYS); Rhinebeck; New Windsor; West Farms; **LI**: Orient, *Lath* (NYS). Je–Jl. Wild parsnip (Heracleum) and other Umbelliferae.  
 6473 **D. emeritella alienella** Bsk. Ilion. Artemisia.

## INGA Busck

- 6483 *I. sparsiciliella* Clem. West Farms, May-Je.

## SEMIOSCOPIS Hübner

- 6488 *S. inornata* Wlsm. Ithaca; Karner.  
 6487 *S. megamicrella* Dyar. Ithaca; **LI**: E. New York. Ap-May.  
 6485 *S. merricella* Dyar. Albany; Big Ind. Val. May.  
 6486 *S. aurorella* Dyar. Ithaca; Big Ind. Val.  
 6484 *S. packardella* Clem. E. Aurora (*Wild*); Ithaca; Big Ind. Val.; Albany.  
 Ap-Je.

## ETHMIA Hübner

- 6642 *E. longimaculella* Cham. Plattsburg; Ithaca. May; **Jl**. Lithospermum.

## SCHIFFERMUELLERIA Hübner

- 5490 *S. argenticinctella* Clem. Grand I., Rock City (*Wild*); Ithaca; McLean;  
 Rhinebeck; NYC. End Je-Aug. Under bark of elder.  
 — *S. formosella* Schiff. **LI**: Forest Pk., Aug 31, 1921, **Jl** 17, 1923, *Kch* (Fbs).  
 Heretofore known only from Europe, where the larva lives under bark  
 of poplar.

## FABIOLA Busck

- 6498 *F. shaleriella* Cham. Salamanca, **Jl** (*Wild*).

## DECANTHA Busck

- 6497 *D. borkhausenii* Z. (*boreasella* Cham.). Ithaca, Je-Jl. Under bark of pine.

## OECOPHORA Latreille

- 6499 *Oe. newmanella* Clem. N. Elba; Batavia; E. Aurora, Gowanda (*Wild*);  
 Rock City; Portage; Ithaca; Trenton Falls; Albany; New Windsor. Je.

## BORKHAUSENIA Hübner

- 6505 *B. ascriptella* Bsk. Ithaca; McLean. Je-Aug.

## FAMILY XYLORICTIDAE

## STENOMA Zeller

- 6606 *S. schlaegeri* Z. Mt. Marcy; Thousand Isls., *Kch*; E. Aurora (*Wild*);  
 Rock City; Castile, Je (Fbs); Ithaca; McLean; Big Ind. Val.; Bethle-  
 hem; New Windsor. May-Je. Oak.  
 6609 *S. algidella* Wlk. (*leucillana* auct.). Buffalo (*Wild*); Rock City; Ithaca;  
 McLean; Trenton Falls; Big Ind. Val.; Ft. Montgomery. Je-Aug.  
 The caterpillar is common on maple and on various trees and shrubs,  
 and has been found boring in an apple.  
 6614 *S. querciella* Bsk. Ithaca, **Jl** 24 (Fbs); **LI**: Coram, **Jl** 17, *Kch* (Fbs).



## MENESTA Clemens

- 6397 *M. albaciliaeella* Cham. Peru (Fbs); Protection, *Wild* (Fbs). Early spring—Je; Jl. Blackberry.

## FAMILY GELECHIIDAE

## GELECHIA Hübner

- 6208 *G. trialbamaculella* Cham. "NY" (Bt); late Jl—early Aug. The caterpillar is found on many shrubs, such as locust, oak, *Comptonia*, *Epigaea*, and *Vaccinium*.  
 — *G. psiloptera* Barnes & Bsk. var. Peru.  
 6211 *G. continuella* Z. L. Tear; Ithaca. Jl—Sep.  
 6245 *G. discoocellella* Cham. E. Aurora, Je (*Wild*); Ithaca, Jl (Fbs); LI: Forest Pk., Aug 20, *Kch* (Fbs).  
 6236 *G. fluvialella* Bsk. Peru; Allegany Pk. (*Wild*); Rock City; Ithaca, *Fbs* (Bsk). Je—Jl.  
 6247 *G. anarsiella* Cham. var. E. Aurora, Jl, *Wild* (Fbs). Wild cherry.  
 6253 *G. albisparsella* Cham. Ithaca.  
 6249 *G. inquilinella* Bsk. Karner. Spring. Larva inquiline in *Rhabdophaga brassicoides* gall on *Salix*.  
 6263 *G. versutella* Z. E. Aurora, Jl, *Wild* (Braun).  
 6265 *G. bicostomaculella* Cham. Keene, Buffalo, E. Aurora, May—Je (*Wild*). Black oak.  
 6268 *G. maculimarginella* Cham. Cranberry L., *Htly* (Bsk); Buffalo (*Wild*); Salamanca, E. Aurora (*Wild*); Ithaca. Je—Jl. Ash.  
 6269 *G. biminimaculella* Cham. E. Aurora, Buffalo, Jl (*Wild*).  
 6275 *G. vernella* Murt. Ithaca, Jl. Laurel oak.  
 6266 *G. nigrimaculella* Bsk. Lancaster, *EPV* (Fbs); Ithaca. Late Jl—early Oct.  
 6289 *G. gilvomaculella* Clem. E. Aurora; Ithaca. Jl. Oak.  
 6279 *G. fondella* Bsk. E. Aurora, Je (*Wild*).  
 6296 *G. pseudofondella* Bsk. Ithaca. Je—Jl.  
 6278 *G. mediofuscella* Clem. Peru; Amherst, E. Aurora, Gowanda (*Wild*); Rock City; Crosby; Potter Swamp; McLean. Early spring; Jl. In seeds of *Ambrosia trifida*.  
 6280 *G. walsinghami* Dietz. Ithaca. May—Jl.  
 — *G. arenella* Fbs. LI: Rockaway Beach. May—Aug.  
 6295 *G. branella* Bsk. Ithaca, Jl, 1924 (Fbs).

## GNORIMOSCHEMA Busck

- 6122 *G. gallaesolidaginis* Rly. GOLDENROD GALL. Canandaigua (NYS); vic. Buffalo; Ithaca; McLean; Big Ind. Val.; Albany; LI: Richmond Hill. End Aug—Sep. In stems of goldenrod, forming a fusiform gall.  
 6126 *G. gallaeasteriella* Kell. E. Aurora, Protection, Aug—Sep (*Wild*).  
 6109 *G. banksiella* Bsk. Essex Co; Rochester (NYS); Batavia; E. Aurora; Otto; Ithaca; McLean; LI: Sea Cliff. Jl—Aug. Solidago.  
 6117 *G. batanella* Bsk. E. Aurora, Buffalo, Je (*Wild*).  
 6119.1 *G. chenopodiella* Bsk. Ithaca, Je, *Chap* (Fbs). *Chenopodium*.

## ANACAMPSIS Curtis

- 6188 **A. innocuella** Z. Orchard Pk., Gowanda (*Wild*); Ithaca; Ilion; Pearl R.; LI: Cold Sp. Harb. Jl. Poplar.
- 6189 **A. rhoifructella** Clem. E. Aurora, Buffalo (*Wild*); West Farms; LI: Forest Pk., Kch (Fbs). May-Aug. Sumac; viburnum; spicebush, blackberry, and poplar (*Wild*).
- 6199 **A. agrimoniella** Clem. Otto; E. Aurora, Je-Jl (*Wild*); Taughannock Falls; McLean; LI: Sea Cliff. Agrimony.
- 6195 **A. nonstrigella** Bsk. E. Aurora, Je-Jl. Hop hornbeam (*Wild*).
- 6200 **A. tristrigella** Wlsm. E. Aurora, Jl, *Wild* (Fbs). Corylus; ironwood (*Wild*).

## ANARSIA Zeller

- 6353 **A. lineatella** Z. PEACH BUD-MOTH. Rochester; Lockport; Clifton; Ithaca; Jordan Station; Schoharie; Coxsackie, Blauvelt (NYS). Peach and plum.

## TRICHOTAPHE Clemens

- 6355 **T. flavocostella** Clem. Rochester (Angle); Buffalo, E. Aurora (*Wild*); Ithaca; Ilion; Big Ind. Val.; Poughkeepsie; New Windsor; NYC. Je-Jl. Solidago and Helianthus.
- 6356 **T. inserrata** Wlsm. Buffalo, Je (*Wild*).
- 6361 **T. alacella** Clem. Buffalo, E. Aurora (*Wild*); Ithaca; LI: Sea Cliff. Je-Jl. Solidago (*Wild*).
- 6363 **T. nonstrigella** Cham. Keene, Je (*Wild*).
- 6364 **T. juncidella** Clem. E. Aurora, *Wild* (Fbs); Ithaca; McLean; Rhinebeck. Je-Sep. Solidago, Aster, Artemisia, and other Compositae.
- 6365 **T. trinotella** Bsk. Ithaca (Fbs); Colden, *EPV* (Fbs).
- 6366 **T. leuconotella** Bsk. E. Aurora (Bsk).
- 6368 **T. levisella** Fyles (*washingtoniella* Bsk.). Ithaca. Je; Aug. Aster.
- 6376 **T. fernaldella** Bsk. Peru, Je.
- 6367 **T. setosella** Clem. Ithaca; LI: Sea Cliff. Jl-Aug.

## DICHOMERIS Hübner

(*Ypsolophus*)

- 6380 **D. ligulella** Hbn. (*pometella* Harr.). PALMER WORM. Buffalo, E. Aurora, Randolph (*Wild*); Geneva; Rock City; Ithaca; Byron; Albany. May-Jl. Apple, oak, azalea, and nettle; often injurious on apple.
- 6378 **D. punctidiscella** Clem. E. Aurora, Irving (*Wild*); Ithaca; Taughannock Falls; McLean. End of May - Jl.
- 6389 **D. ventrella** Fitch (?*georgiella* Wlk.). "NY" (Fitch); Gowanda (*Wild*).
- 6379 **D. eupatoriella** Cham. E. Aurora, Je (*Wild*); Crosby. May-Jl; late Sep. *Eupatorium ageratoides* and *Vernonia*.
- **D. marginella** Fab. JUNIPER WEBWORM. Ithaca; Tarrytown; NYC (NYS); LI: Westbury (NYS); Plandome. Aug. *Juniperus communis*.

## GLYPHIDOCERA Walsingham

- 6408 *G. meyrickella* Bsk. Ithaca.  
 — *G. (Sceptea) n.sp.* Ithaca (Fbs).

## ANORTHOSIA Clemens

- 6351 *A. punctipennella* Clem. Taughannock Falls; Ithaca; McLean. Je-Aug.

## STROBISIA Clemens

- 6398 *S. emblemella* Clem. Rock City; Taughannock Falls. Je-early Jl. Caterpillar possibly on buckeye.  
 6399 *S. irridipennella* Clem. In Robinson Coll. (presumably from NY). Je-Aug.

## DUVITA Busck

- 6184 *D. vittella* Bsk. **LI.** Larva in "stunted cones" of Scotch and Austrian pine, and in "cecidomyid gall" on *Pinus taeda*.  
 6185 *D. nigratomella* Clem. Rock City; Ithaca. May-Jl.  
 6186 *D. concinusella* Cham. E. Aurora, Jl (*Wild*); Rock City.  
 — *D. tahavusella* Fbs. Uphill Br., Mt. Marcy; Peru. Je-early Jl.  
 — *D. n.sp.* near *tahavusella*. Ithaca (Fbs).  
 6283 *D. conclusella* Wlk. E. Aurora, Protection (*Wild*); Peru; Castile, Je, *Brad* (Fbs); Rock City; Ithaca; McLean. Je-Aug.

## PARALECHIA Busck

- 6166 *P. pinifoliella* Cham. PINE LEAF-MINER. Round L.; Ithaca; Karner. Je-Jl. Leaf-miner in pine needles.

## AROGALEA Walsingham

- 6167 *A. cristifasciella* Cham. Crosby; Ithaca, *Babiy* (Fbs); **LI:** Forest Pk., *Kch* (Fbs). Ap; Jl. Oak.

## TELPHUSA Chambers

- 6071 *T. longifasciella* Cham. E. Aurora; Crosby; Ithaca. Ap-May.  
 6074 *T. latifasciella* Cham. **LI:** Forest Pk., Jl 4, 1920, *Kch* (Fbs).  
 6080 *T. basifasciella* Z. Grand I., Buffalo (*Wild*); Ithaca (Fbs). Late May-Jl.  
 6075 *T. quercinigracella* Cham. Ithaca, Jl; **LI:** Forest Pk., Je, *Kch* (Fbs). Blackjack and other oaks.  
 6078 *T. querciella* Cham. E. Aurora, *Wild* (Fbs).  
 6077 *T. palliderosacella* Cham. Orchard Pk., West Falls (*Wild*); Rock City. Oak.  
 6083 *T. belangerella* Cham. Keene, Je, *Wild* (Fbs); E. Aurora, May, *Wild* (Fbs).

## GLAUCE Chambers

- 6040 *G. pectenalaella* Cham. Rock City; McLean. Jl-Aug.

## ARISTOTELIA Hübner

- 6041 **A. roseosuffusella** Clem. E. Aurora, Gowanda, Protection (Wild); Ithaca; McLean; **LI**: Glendale, *Kch* (Fbs). May-Oct; commonest in J1 and Aug.  
 6042 **A. pudibundella** Z. Rock City, J1.  
 6052 **A. absconditella** Wlk. E. Aurora, J1 (Wild); Lockport, Scotia, Albany (Felt). Sep.  
 6058 **A. quinquepunctella** Bsk. E. Aurora, Je, *Wild* (Braun); Ithaca, J1 (Fbs).

## ENCHRYSA Zeller

- 6067 **E. dissectella** Z. Wells (NYS); Rock City (Wild).

## CHRY SOPORA Clemens

- 6069 **C. hermannella** Fab. Ithaca. Chenopodium (Sling).

## RECURVARIA Haworth

- 6135 **R. apicitripunctella** Clem. Wells; Ithaca (abundant). Je-J1. Hemlock.  
 6136 **R. variella** Cham. Yonkers, Je-J1. Bald cypress, and evidently other trees.  
 6141 **R. thujaella** Kf. **LI**: Westbury; Hicksville (NYS). Je. Thuja.  
 6138 **R. piceaella** Kf. E. Aurora, Hamburg, Je-J1 (Wild); Scarsdale (NYS). Hemlock.  
 6156 **R. gibsonella** Kf. Ithaca, Je-early J1. Juniper.  
 6143 **R. crataegella** Bsk. E. Aurora; Batavia; Albany. May-J1. Crataegus.

## EUCORDYLEA Dietz

- 6065 **E. atrupictella** Dietz. Ithaca, Aug-Sep 5.

## EPITHECTIS Meyrick

- 6160 **E. attributella** Wlk. E. Aurora, Salamanca (*Wild*); Ithaca; McLean; Bronx Pk. (Wild). J1-Aug.  
 6162 **E. sylvicelella** Bsk. E. Aurora, May, *Wild* (Fbs).

## EVIPE Chambers

- 6062 **E. prunifoliella** Cham. McLean, May-J1. Plum and peach; rarely on soft maple.  
 6063 **E. leuconota** Z. Has been reported from Albany.

## SITOTROGA Heinemann

- 6038 **S. cerealella** Oliv. ANGOU MOIS GRAIN MOTH. Undoubtedly distributed throughout the warmer parts of the State, definite localities being: Geneva; Ithaca; Albany; Poughkeepsie; **LI**: Smithtown. Aug. In stored grain.

## PTYCERATA Ely

- 6035 *P. busckiella* Ely. Ithaca, Je 30, *Fbs* (Bsk).

## METZNERIA Zeller

- 6021 *M. lappella* L. BURDOCK MOTH; TRIPLE-SPOTTED YELLOW. Peru; Newcomb; Alexandria Bay, Thousand Isls., *Kch* (Fbs); Rochester (NYS); E. Aurora, Irving (*Wild*); Lewistown; Castile, *Brad*; Ithaca; McLean; Katonah. May-Aug. In burs of burdock.

## HELICE Chambers

- 5972 *H. constrictella* Z. Buffalo, Je (*Wild*); also Sep. Elm.

## FAMILY BLASTOBASIDAE

## EURESIA Dietz

- 6528 *E. pulchella* Dietz. Salamanca (*Wild*); Ithaca, Jl-Aug 5 (Fbs).

## VALENTINIA Walsingham

- 6520 *V. glandulella* Rly. ACORN MOTH. Ithaca, Jl. In acorns.  
6522 *V. quaintancella* Dietz. Ithaca, Jl. Larva in mummy apples.

HOLCOCERA Clemens (restricted)<sup>63</sup>

- 6531 *H. dives* Dietz. Ithaca, Jl.  
6532 *H. aphidiella* Wlsm. Rock City; Ithaca. Jl. In Phylloxera gall on hickory.  
6541 *H. confluentella* Dietz. Ithaca, Je-Jl. On pitch pine.  
6536 *H. purpurocomella* Clem. Rock City; Vandalia. Je.  
6540 *H. chalcfrontella* Clem. Ithaca, Jl. Larva in sumac heads.  
—— *H. n. sp.* near *villella* Bsk. Ithaca (Fbs).  
6549 *H. funebra* Dietz. Rock City, May-Jl.  
6555 *H. elyella* Dietz. Ithaca, Jl-Aug.  
6539 *H. modestella* Clem. E. Aurora, May-Je (*Wild*). Red oak (*Wild*).

## BLASTOBASIS Zeller

- 6513 ?*B. plummerella* Dietz. Rock City, Jl.  
6514 *B. sagittella* Dietz. Rock City, Aug.

## PLOIOPHORA Dietz

- 6578 *P. fidella* Dietz. Rock City, Je; Ithaca (Fbs).

## PIGRITIA Clemens

- 6580 *P. purpurella* Dietz. Rock City, Je.

<sup>63</sup> All determinations in this genus are tentative (Fbs).



## FAMILY LAVERNIDAE

## LAVERNA Curtis

- 6006 *L. brevivittella* Clem. Ithaca; Albany. Oct. In seed capsules of *Oenothera*.  
 6007 *L. stellella* Bsk. E. Aurora, Je-Sep, *Wild* (Braun).  
 — *L. n. sp.* Ithaca, Oct-Apr (Fbs).  
 6018 *L. decorella* Steph. (*unifasciella* Cham.). Ithaca (Fbs). Aug-Sep. Stem gall on *Epilobium*.

## LYMNAECIA Stainton

- 5989 *L. phragmitella* Stt. CATTAIL MOTH. Lewiston; E. Aurora, Irving (*Wild*); Ithaca; McLean (larval work). May-Jl. Cattail.

## WALSHIA Clemens

- 5985 *W. amorphella* Clem. Ithaca. May; Jl. *Amorpha fruticosa*.

## STILBOSIS Clemens

- 5984 *S. tesquella* Clem. Irving, *Wild* (Fbs); Ithaca; LI: Sea Cliff. May-Jl; Aug. Lespedeza.

## LOPHOPTILUS Sircom

- 5990 *L. tricristatella* Cham. Uphill Br., Mt. Marcy. May-Je.  
 6008 *L. eloisella* Clem. E. Aurora, *Wild* (Braun); Ithaca, Je; LI: Forest Pk., Jl, *Kch* (Fbs). Stems of *Oenothera*.  
 5994 *L. passerella* Bsk. NYC (Wat).

## PSACAPHORA Herrich-Schaeffer

- 5998 *P. luciferella* Clem. "NY" (Clem).  
 5996 *P. terminella engelella* Bsk. E. Aurora, Jamestown (*Wild*); Rock City; Castile, Je, *Brad* (Fbs); Hemlock L.; McLean. May; Je. *Circaea lutetiana*.  
 — *P. n. sp.* E. Aurora, *Wild*.

## PERIMEDE Chambers

- 5987 *P. erransella* Cham. Ithaca; McLean. Jl-Aug.  
 — *P. falcata* Braun. Ithaca, Je-Jl.

## BLASTODACNA Wocke

- 5986 *B. curvilineella* Cham. Ithaca (Wellhouse). The moth emerges in spring. In berries of *Crataegus*.

## BATRACHEDRA Stainton

- 7821 *B. salicipomonella* Clem. Larva at Ithaca. Inquiline in willow galls, especially the sawfly gall on the leaves.

## COSMOPTERYX Hübner

- 5966 **C. fernaldella** Wlsm. McLean, Jl.  
 5957 **C. clemensella** Stt. "NY" (US). Ipomoea.  
 5958 **C. gemmiferella** Clem. E. Aurora, *Wild* (Braun); **LI**: Sea Cliff (Bsk).  
 Je-Jl. Ipomoea.  
 — **C. magophila** Meyr. Ithaca, Aug.

## FAMILY YPONOMEUTIDAE

## YPONOMEUTA Latreille

- 7723 **Y. multipunctella** Clem. E. Aurora, Je, basswood (*Wild*); Ithaca, late  
 Jl—early Aug (Fbs). Evonymus.  
 7728 **Y. padella** L. APPLE ERMINE MOTH. Introduced on nursery stock in a  
 number of localities in the vicinity of Geneva and Rochester and at  
 Schoharie, but now exterminated. Apple and other trees of Rosaceae.

## ATTEVA Walker

- 7731 **A. punctella** Cram. (*aurca* Fitch). **LI**: Newtown (Doll). Ailanthus.

## URODUS Herrich-Schaeffer

- U. n. sp.** Cranberry L., pupa in suspended lace cocoon, *Htly* (Fbs).

## PLUTELLA Schranck

- 7683 **P. maculipennis** Curt. DIAMOND-BACK MOTH. E. Aurora; Ithaca; Mc-  
 Lean; Albany; NYC (Watson); **LI**: common and general. Aug–Sep.  
 On various Cruciferae; often injurious to cabbage.  
 7675 **P. porrectella** L. Buffalo, May, on sweet rocket (*Wild*).

## CEROSTOMA Latreille

- 7650 **C. falciferella** Wlsm. Ithaca, Aug. Larva to be expected on Rosaceae.  
 7654 **C. dentiferella** Wlsm. Buffalo, Jl, *Wild* (Kf).  
 — **C. dentiferella** form *canariella* Wlsm. McLean, Aug (Fbs).  
 — **C. xylostella** L. EUROPEAN HONEYSUCKLE LEAF-ROLLER. Ithaca, Je–Jl  
 Lonicera.

## EPPERMENIA Hübner

- 8089 **E. ramapoëlla** Kf. Ramapo (type).

## ARGYRESTHIA Hübner

- 7692 **A. calliphanes** Meyr. Cranberry L., *Htly* (Bsk); Ithaca, Jl–Aug (Fbs);  
 Albany. Alder.  
 7695 **A. oreasella** Clem. Wells; Rock City; Ithaca; McLean; Poughkeepsie; West  
 Farms. Jl–Aug. Larva possibly on oak.  
 7689 **A. freyella** Wlsm. Ithaca, *Seeley* (US). Je. Red cedar and arbor vitae.  
 7700 **A. subreticulata** Wlsm. West Falls, Aug (*Wild*); Ithaca, Jl (Fbs). Bass-  
 wood (*Wild*).

- 7687 **A. alternatella** Kf. Ithaca. May; Jl. Juniper berries (Markowitz).  
 7703 **A. conjugella** Z. Mt. Marcy, 3000 ft.; Trenton Falls. Jl. On fruits of apple and mountain ash.  
 7711 **A. undulatella** Cham. E. Aurora, Gowanda, Je (*Wild*).  
 7712 **A. austerella** Z. Otto; E. Aurora, Buffalo, Gowanda (*Wild*); Rock City; Ithaca. Je-Jl.  
 7713 **A. thuiella** Pck. ARBOR VITAE LEAF-MINER. Ithaca; LI: Hicksville; Westerly. Records in economic literature likely to refer also to *Recurvaria thujaella*.

## OCNEROSTOMA Zeller

- **O. pinariella** Z. EUROPEAN PINE LEAF-MINER. Ithaca, Jl, *Comstock*, *Fbs* (Fbs).

## ZELLERIA Stainton

- 7721 **Z. (Xyrosaris) celastrusella** Kf. Buffalo (*Wild*); E. Aurora, *Wild* (Braun). End of May-Je. *Celastrus scandens*.

## SCYTHRIS Hübner

- 8079 **S. impositella** Z. Protection, E. Aurora, Niagara Falls (*Wild*); Rock City; West Farms. Je.  
 8080 **S. eboracensis** Z. E. Aurora, Gowanda (*Wild*); Rock City; Portage; Crugers; LI: Sea Cliff. Je-Jl; end of Aug-Sep. Thistle.  
 8078 **S. basilaris** Z. Keene Val.; LI: Cold Sp. Harb. Je-Jl.

## FAMILY GLYPHIPTERYGIDAE

## SIMAETHIS Leach

(Hemerophila Hübner)

- **S. pariana** Cl. APPLE AND THORN SKELETONIZER. First discovered by D. B. Van Buren, of NYS Dept. Farms and Markets, in Westchester Co in 1917. Throughout Hudson R. Val. and LI, southward from Whitehall. Je; Aug; Oct-May. Apple, rarely thorn and pear.  
 7607 **S. pavonacella** Clem. Ramapo. May; Jl-Aug. Desmodium and Amphicarpa.

## CHOREUTIS Hübner

- **C. gnaphaliella** Kearfott. Castile, Je, *Brad* (Fbs).  
 7608 **C. inflatella** Clem. Wilmington; Batavia; E. Aurora, Irving, Niagara Falls (*Wild*); Ithaca; West Farms. Je-Jl; Sep. *Scutellaria lateriflora*. Most or all of these records are var. *virginiella* Clem.  
 7618 **C. onustana** Wlk. Mt. Whiteface; Uphill Br., Mt. Marcy; E. Aurora; Keene, Gowanda, Allegany Pk. (*Wild*); Ithaca. Je-Jl.

## GLYPHIPTERYX Hübner

- **G. impigritella** Clem. McLean (Fbs).  
 7633 **G. circumscriptella** Cham. In Robinson Coll., presumably from NY. Jl.

## ABRENTHIA Busck

- 7606 **A. cuprea** Bsk. Protection, Je 16, 1918, *Wild* (Fbs).

## FAMILY HELIODINIDAE

## EUCLEMENSIA Grote

- 7574 **E. bassettella** Clem. Ithaca (How, Fbs); Nyack (Zab); **LI**: Flatbush.  
Jl-Aug. Larva in Kermes.

## CYCLOPLASIS Clemens

- 7558 **C. panicifoliella** Clem. NY(?). Late Jl-Aug. *Panicum clandestinum*.

## SCHRECKENSTEINEA Hübner

- 7573 **S. erythriella** Clem. Ithaca; Albany. Aug. Sumac.  
7572 **S. festaliella** Hbn. Gowanda, *Wild* (Braun); McLean; Ithaca; Rock City.  
Ap-May; Jl-Aug. Rubus.

## FAMILY ÆGERIIDAE

## MEMYTHRUS Newman

- 6755 **M. asilipennis** Bdv. Rochester Jct.; Buffalo; West Pt., Je (Ds); **SI**; **LI**:  
Brooklyn, Amagansett (Eng); Jamaica, *Kch.* Oak, in roots and in  
base of trunks (Eng).  
6753 **M. simulans** Grt. var. *luggeri* H. Edw. Buffalo (*Wild*); **SI**; **LI**: Jamaica.  
Late May-Jl; the moths flying in vic. NYC in odd-numbered years.  
Black and red oaks, saplings and branches (Eng); very rarely in white  
oak or chestnut.  
6754 **M. palmii** H. Edw. **LI**: Flatbush; Yaphank. White oak (Eng).  
6747 **M. tricinatus** Harr. Buffalo; Lancaster; Big Ind. Val.; Karner; **LI**: general.  
Je-Jl. Willow and poplar.  
6757 **M. dolli** Neum. **LI**: Brooklyn. Poplar and willow (Eng).  
6752 **M. sceansiformis** H. Edw. Suffern, Aug (Eng).  
6744 **M. pyramidalis** Wlk. Axton; Niagara Falls, *EPV*; Big Ind. Val.; **LI**:  
Brooklyn; Bay Shore. Je-Aug.  
**M. pyramidalis** form *coloradensis* H. Edw. **LI**: Brooklyn, Aug (Eng).  
6745 **M. fraxini** H. Edw. (*morrisoni* H. Edw.). Suffern, Aug, a root borer in  
ampelopsis (Eng).

## MELITTIA Hübner

- 6739 **M. satyriniformis** Hbn. SQUASH VINE-BORER. Probably generally dis-  
tributed throughout the State south of the Adirondacks. Definitely  
recorded from: Wells; Monroe, Wayne, Onondaga, Seneca, and  
Tompkins Counties; Rome; Johnstown; Schenectady; Albany; NYC;  
**SI**; **LI**. Injurious to squash, pumpkin, and other Cucurbitaceae.

## PODOSESIA Möschler

- 6726 **P. syringae** Harr. LILAC BORER. Albany; Rye (Eng); NYC (Eng); **LI**:  
Brooklyn (Eng). Ash and lilac.

## SANNINA Walker

- 6725 *S. uroceriformis* Wlk. Albany. Persimmon.

## PARHARMONIA Beutenmüller

- 6723 *P. pini* Kell. Oswego Co.; Buffalo; Portage; Ithaca; Karner; Round L. (NYS); Hastings Center, East Schodack, Kinderhook (NYS); Hudson; Ulster Co. (NYS). Jl. Pitch pine, white pine, and spruce.

## CONOPIA Hübner

(*Sesia*)

- 6655 *C. exitiosa* Say (*Saminoidea*). PEACH TREE BORER. Generally distributed and injurious in the Great Lakes strip including Genesee and Wyoming Counties; Trumansburg, Ithaca, Gloversville; Hudson Val. from Albany south; **SI**; **LI**, in western part. Jl-Aug. Peach, plum, and cherry (Eng).
- C. exitiosa* var. *edwardsi* Bt. West Falls, Allegany Pk. (Wild); Phelps; Trumansburg; McLean. Jl-Aug. Largely replaces typical form in western and northern parts of State (Eng).
- 6674 *C. rubrofascia* H. Edw. Reported from NYC. This record is doubtful (Eng).
- 6675 *C. bolteri* H. Edw. Ithaca; Big Ind. Val.; Mosholu. Willow.
- 6715 *C. pyralidiformis* Wlk. Fairport; Batavia; E. Aurora, Jl 28, *Wild* (Fbs); **SI**; **LI**: Amagansett; Woodhaven.
- 6686 *C. corni* H. Edw. **LI**: Woodhaven, May-Je, in rootstock of *Doellingeria umbellata* (Eng).
- *C. acerrubri* Eng. Sharon Sps.; Karner; **SI**, Je (Ds); **LI**: Brooklyn and Newtown (Eng); Hempstead (CU). Maple, especially red maple (Eng).
- 6685 *C. acerni* Clem. MAPLE CALLUS-BORER. Speculator; Rochester (Angle); Buffalo; Irving (*Wild*); Kenmore; Rock City; Ithaca; Ilion; Schenectady; Albany; **SI**; **LI**: Brooklyn; Newtown. Je-Jl. Maple.
- 6677 *C. fulvipes* Harr. Big Ind. Val.
- 6679 *C. pictipes* G. & R. LESSER PEACH-TREE BORER. L. Ontario strip from Hastings Center to Youngstown and Buffalo; Lyndonville; Hector; Ithaca; Catskills; Schenectady; Albany; Poughkeepsie; West Pt. (Ds); NYC; **SI**; **LI**: Brooklyn; Sands Pt. (Bs). Part of these records may belong to *C. castaneae*. Je. June berry and other Rosaceae.
- 6680 *C. castaneae* Bsk. Ithaca, Je 5, 1897 (CU); NYC (Eng); **LI** (Eng). Je-Jl. Chestnut.
- *C. viburni* Eng. **LI**: Flatbush, Woodhaven, and vic. (Eng). Ap-May. Viburnum.
- 6694 *C. rubristigma* Kell. Mosholu; **LI**: Brooklyn. Oak galls.
- 6689 *C. rhododendri* Bt. RHODODENDRON BORER. Rochester; Ithaca; NYC; **LI**: Brooklyn. Rhododendron.
- 6668 *C. bassiformis* Wlk. Tuckahoe; **SI**; **LI**: Sea Cliff. Aug-Sep. Rootstock of Eupatorium.



- 6690 *C. scitula* Harr. Buffalo, Irving (*Wild*); Ithaca; Hudson; Pine I. (Ds); LI. Je-Jl. Cornus; oak; hazel (Eng); hickory; chestnut; Crataegus (Wellhouse); and in oak galls, perhaps mixed with other species, certainly from Andricus galls on oak.
- 6669 *C. tipuliformis* L. IMPORTED CURRANT BORER. Plattsburg; Orleans Co; Buffalo; Chautauqua Co; Ithaca; Kendall; Albany; Ulster Co; SI; LI: Pinelawn; Easthampton; Floral Pk., May (Ds); Brooklyn (Eng). Je. Gooseberry and currant stems.
- 6688 *C. pyri* Harr. PEAR BORER. Honeoye Falls; Albion; Buffalo (Kell); Colden, Aug 3, *EPV*; Ithaca; SI; LI: Brooklyn. May; late Jl. Apple, pear, etc.
- 6681 *C. albicornis* H. Edw. E. Aurora, Buffalo (*Wild*); Catskills; Karner; NYC; SI (Ds); LI: Brooklyn. Je-Jl. Willow and poplar.
- 6691 *C. ithacae* Bt. Plattsburg (Ds); Ithaca (type). End of Je—early Aug. Roots of Heliopsis.
- 6660 *C. rileyana* H. Edw. SI: Tottenville, Aug (Eng, Ds); LI: Rockaway (Eng). Roots of Solanum (Eng).
- 6699 *C. sigmoidea* H. Edw. NYC (Eng); LI: Amagansett; Woodhaven. Aug. Black willow.

## ÆGERIA Fabricius

- 6652 *Æ. apiformis* Cl. HORNET MOTH. Injurious in Brooklyn and NYC (Eng); LI: Glendale, Je, *Kch*; reported also from Syracuse. Poplar and willow.
- 6654 *Æ. tibialis* Harr. Plattsburg; Keene Val. (Eng); Goat I. (Kell). Je-Jl. In poplar and willow.

## ALCATHOË H. Edwards

- 6650 *A. caudata* Harr. New Russia, Jones; NYC; LI: Brooklyn; Newtown. Je-Aug. In crown of Clematis.
- A. caudata* var. *walkeri* Neum. LI: Jamaica (Eng).

## BEMBECIA Hübner

- 6649 *B. marginata* Harr. BLACKBERRY CROWN-BORER. Wilmington; Lancaster; E. Aurora, Buffalo (*Wild*); Allegany Pk., *Wild* (Fbs); Ithaca; West Pt., Sep, *Robn* (Ds); SI; LI. Blackberry and raspberry roots, often injurious.
- B. marginata* var. *albicoma* Hulst. Big Ind. Val.; LI: Brooklyn.

## FAMILY TORTRICIDAE

## SUBFAMILY EUCOSMINAE

## • HEMIMENE Hübner

- 7233 *H. dana* Kf. Black Br.; Batavia; Rock City; Crosby; Ithaca; McLean. May-Je.
- 7256 *H. bittana* Bsk. West Falls, Buffalo (*Wild*); Ithaca. Je-Jl.
- 7255 *H. simulana* Clem. Buffalo (*Wild*); Ithaca; West Farms. End of May; end of Aug.
- 7254 *H. incanana* Clem. E. Aurora, Gowanda, Portage (*Wild*).

## LASPEYRESIA Hübner

(Enarmonia)

- 7231 *L. lautana* Clem. McLean; Ithaca; Ramapo. Ap-May.
- 7207 *L. caryana* Fitch. PECAN SHUCK-WORM. Easton (type). May-Aug. Hickory and walnut.
- 7209 *L. prunivora* Wlsm. LESSER APPLE WORM. Buffalo, Je (*Wild*); Crosby; Ithaca, Aug (Hein). Young plums, Crataegus fruit, and crab apples.
- 7210 *L. interstinctana* Clem. CLOVER-SEED CATERPILLAR. Newport; E. Aurora, Gowanda (*Wild*); Castile, *Brad*; Ithaca; McLean; Big Ind. Val.; NYC. May-Je; late Jl-Sep. Clover.
- 7215 *L. saundersana* Kf. Karner (Fbs).
- 7213 *L. fana* Kf. E. Aurora, May 30, *Dnd* (Fbs).
- 7216 *L. eclipsana* Z. Castile, *Brad*; Ithaca. Ap-May. Larva on grape.
- 7235 *L. nigricana* Steph. (*novimundi* Hein.). PEA MOTH. Niagara Falls (*Wild*). Je-Aug. Larvae in pods of peas and other legumes.
- 7234 *L. dandana* Kf. E. Aurora, Gowanda, Buffalo, Je-Aug (*Wild*).
- *L. molesta* Bsk. ORIENTAL FRUIT MOTH. Lockport, Aug, *Strickland* (larvae); White Plains (NYS); Larchmont (CU); **LI**: Flushing (CU). Injurious to peach, plum, apple, and other Rosaceae.
- 7250 *L. multilineana* Kf. Jamestown, Je.
- 7224 *L. albimaculana* Fern. Buffalo, Je-Jl (*Wild*).
- 7236 *L. gallaesaliciana* Rly. Peru; Buffalo, Jl (*Wild*); Big Ind. Val. Je-Jl. Gall on willow.
- 7236 *L. populana* Bsk. Ithaca, Jl, *Fbs* (Hein).

## CARPOCAPSA Treitschke

- 7270 *C. pomonella* L. CODLING MOTH. Generally distributed. Spring; Jl-Aug. Injurious chiefly to apple and pear.

## MELISSOPUS Riley

- 7269 *M. latiferreanus orichalceanus* Wlsm. Gowanda, E. Aurora (*Wild*); Ithaca; McLean; Karner. Jl-Aug; late Sep. On young acorns.

## GYMNANDROSOMA Dyar

- 7252 *G. punctidiscanum* Dyar. Ithaca; NYC; **LI**: Maspeth. May-Jl.

## ECDYTOLOPHA Zeller

- 7253 *E. insiticiiana* Z. LOCUST GALL. Peru; Lewiston; E. Aurora (*Wild*); Canandaigua (NYS); Baldwinsville; Rochester Jct.; Ithaca; Karner; Rhinebeck; New Windsor; **LI**: Patchogue (NYS). May-Aug. Makes fusiform gall on twigs of locust.

## EPINOTIA Hübner

- 7163 *E. nanana* Tr. (*piceafoliana* Kf.). Portage Falls; Gowanda, *Wild* (Fbs); Scarsdale (NYS). Je. Spruce.
- 7140 *E. lindana* Fern. Ithaca; McLean. Sep. Cornus.
- 7084 *E. signatana* Clem. Newport (NYS); Buffalo (*Wild*); Castile, Je, *Brad* (Fbs); Rock City; Ithaca; McLean; New Windsor. Je. Maple.
- 7280 *E. timidella* Clem. Crosby; Ithaca (CU, bred); **LI**: Bellport (Dyar). May. Oak.
- 7028 *E. similana* Hbn. Pearl R. Hazel and birch.
- 6987 *E. medioviridana* Kf. McLean, Aug-Sep.
- 6984 *E. vertumnana* Z. McLean, Mar-May.
- 6979 *E. walkerana* Kf. Ithaca, late Jl-Sep. Catkins of hazel.
- 6974 *E. transmissana* Wlk. Saranac Inn; Cranberry L., *Htly* (Bsk); summit of Mt. Marcy; E. Aurora, Buffalo (*Wild*); Rock City; Ithaca; McLean; Albany; **LI**: Forest Pk., *Kch* (Fbs). Jl-early Aug. Hazel (*Wild*).
- 6972 *E. solicitana* Wlk. Castile, Je, *Brad* (Fbs); E. Aurora, Niagara Falls (*Wild*). May-Je. White birch.
- 6964 *E. rectiplicana* Wlsm. Peru (Fbs); Keene, *Wild* (Fbs); Ithaca; McLean. Je-Jl. Willow.
- *E. signiferana* Hein. Hemlock L., Sep (Fbs).

## ANCYLIS Hübner

- 7203 *A. tineana* Hbn. McLean, Ap-Jl. Poplar and various Rosaceae.
- (7196) *A. diminutana* Haw. (*uncana* auct. not Hbn.). Peru; Black Br.; Crosby. Ap-Jl. Willow.
- 7206 *A. albacostana* Kf. Black Br.; **LI**: Orient, May 5, *Lath*.
- 7173 *A. mediofasciana* Clem. Karner; Normanskill. May-Je.
- 7194 *A. cornifolia* Rly. E. Aurora, *Wild* (Fbs); Ithaca; McLean. May-Je. Blackberry, cornel, and birch.
- 7193 *A. apicana* Wlk. Keene, *Wild* (Fbs); Buffalo, Je (*Wild*); Ithaca; McLean; Trenton Falls; Wellsville. May-Je. Raspberry.
- 7192 *A. divisana* Wlk. Crosby; Ithaca; Trenton Falls. May. Oak and sycamore.
- 7189 *A. floridana* Z. Castile, May 16, *Brad* (Fbs); **LI**: Forest Pk., Aug 31, *Kch* (Fbs).
- 7185 *A. comptana* Froel. STRAWBERRY LEAF-ROLLER. Reported from Buffalo (*Wild*), Glens Falls, Nassau, and West Farms. May. Injurious to strawberries in Europe. The strawberry leaf-roller in this State may be either this species or *A. floridana* Z.

## ANCHYLOPERA Stephens

(Anchylis, in part)

- 7174 *A. nubeculana* Clem. N. Elba; Peru; Cranberry L., *Htly*; Palmyra; E. Bloomfield; Buffalo; E. Aurora; Fredonia; Buffalo; Rock City; Castile, *Leon*; Crosby; McLean; Ithaca; Albany (NYS); Niverville; **LI**: Glendale, *Kch* (Fbs). May-Jl. Apple and other trees.

- 7175 **A. subaequana** Z. Black Br.; Ithaca. Je-Jl; end of Aug.  
 7178 **A. semiovana** Z. Ithaca, May-early Jl.  
 7184 **A. maritima** Dyar. **LI**: Speonk. Larva in summer on beach pea; moth in following spring and again in Aug.  
 7181 **A. pulchellana** Clem. Ithaca, May-Jl.  
 7180 **A. angulifasciana** Z. CLOVER LEAF-TIER. E. Aurora (*Wild*); Castile, *Brad*; Crosby; Ithaca; McLean; **LI**: Forest Pk., *Kch* (Fbs). May-Jl; late Aug. Clover.  
 7191 **A. platanana** Clem. Rock City; Big Ind. Val.; New Windsor. Je.  
 7186 **A. burgessiana** Z. Keene, E. Aurora (*Wild*); Rock City; Ithaca; McLean; Karner. Je-Jl. Oak; also plum (var. *pruni*).  
 7190 **A. laciniana** Z. E. Aurora, May-Jl (*Wild*).  
 7187 **A. dubiana** Clem. E. Aurora, Je (*Wild*).  
 — **A. fuscociliaria** Clem. Rock City; Crosby; Ithaca; McLean; Trenton Falls. Je. Chestnut and elm.  
 7176 ?**A. discigerana** Wlk. (*spiracifoliana* Hein. not Clem.). Newcomb; Rock City; Castile, *Brad*; Ithaca; McLean. Je-early Jl.

## NORMA Heinrich

- 7147 **N. dietziana** Kf. Rock City, May-Je. Crataegus.

## EPIBLEMA Hübner

- 6970 **E. abbreviatana** Wlsm. E. Aurora, *Wild* (Fbs); Buffalo, Niagara Falls (*Wild*); McLean. May-Je.  
 6981 **E. strenuana** Wlk. Stanley; Poughkeepsie (NYS); NYC (Watson); **LI**: Glendale, Forest Pk., *Kch* (Fbs). May-Sep. Ambrosia.  
**E. strenuana** var. **minutana** Kf. Buffalo, E. Aurora (*Wild*); Ithaca.  
 7026 **E. otiosana** Clem. Peru; Ithaca; Big Ind. Val.; **LI**: Forest Pk., *Kch* (Fbs); Orient, *Lath*. Je-Oct. Bidens.  
 6988 **E. brightonana** Kf. Ithaca, Aug.  
 7025 **E. tripartitana** Z. Southern NY, Aug. Larva in gall of *Rudbeckia laciniata* and Solidago.  
 7245 **E. walsinghami** Kf. Rock City, May.  
 7020 **E. carolinana** Wlsm. Buffalo (*Wild*); Ithaca. Jl-Aug.  
 7014 **E. scudderiana** Clem. Lewiston; Irving (*Wild*); Buffalo; Castile, *Brad*; Ithaca; McLean; Albany; New Windsor. Je. Solidago.  
 7016 **E. obfuscana** Dyar. Rock City; Ithaca; McLean; **SI**: Clove Val. May-Sep. Solidago.  
 7013 **E. illotana** Wlsm. E. Aurora (*Wild*); Kinderhook; **LI**: Orient, *Lath*. May-Je.  
 7015 **E. desertana** Z. Peru; E. Aurora, Buffalo (*Wild*); Ithaca; New Windsor; Ramapo. May. Solidago.

## EUCOSMA Hübner

- 6901 **E. circulana** Hbn. **SI**(?). This species presumably occurs northward, but northern records, so far as I have seen the specimens recently, are based on other species of the group. The type is said to have come from Penn.

- 6901.1 *E. scintillana* Clem. Ithaca; McLean; **LI**: Woodhaven, *Kch* (Fbs). Je; Aug-Sep.
- 6902 *E. dodecana* Z. "NY", Je.
- 6884 *E. adamantana* Gn. "NY", Sep (coastal marshes).
- 6879 *E. quinquemaculana* Rob. Wells (NYS); **LI**: Bellmore. Je; Aug-Sep.
- 6880 *E. robinsonana* Grt. Buffalo, Je (*Wild*).
- 7036 *E. sombreana* Kf. Ithaca; **LI**: Brooklyn. Jl-Aug. *Helianthus*.
- 6934 *E. cataclystiana* Wlk. Peru; E. Aurora, *Wild* (Fbs); Buffalo (*Wild*); Ithaca; McLean; Poughkeepsie; **SI**: Clove Val.; **LI**: Orient, *Lath.* Je-Aug. *Ambrosia*.
- 6917 *E. pergandeana* Fern. Peru; **LI**: Lynbrook; Gay I. (in LI Sound). Je-Jl.
- 6926 *E. comatulana* Z. var. E. Aurora, *Wild* (Fbs); Ithaca. Jl 21.
- 6967 *E. juncitciliana* Wlsm. Otto; Ithaca; McLean. Jl-Aug. Larva boring in *Solidago*.
- 7029 *E. dorsisignatana* Clem. Essex Co.; McLean (Fbs); Ithaca; Dansville; New Windsor; Pine I.; NYC; **SI**; **LI**: Cypress Hills, May 25, Woodhaven, Sep, and Forest Pk., Aug, *Kch* (Fbs).
- E. dorsisignatana* Clem. var. *diffusana* Kf. Buffalo, Aug (*Wild*); **LI**: Coram.
- 7029.1 *E. similana* Clem. (*confluana* Kf). Buffalo (*Wild*); Ithaca; McLean; Big Ind. Val.; **LI**: Glendale, *Kch* (Fbs). Aug-Sep.
- 6950 *E. eumaea* Meyr. Ithaca, Jl.
- 6941 *E. womonana* Kf. E. Aurora, *Wild* (Fbs); Ithaca; McLean, Aug 26.
- *E. palabundana* Hein. Ithaca, Jl-Aug. An atypical specimen, probably representing a good race.
- *E. tocullionana* Hein. Peru, Je (Fbs). Larva on *Picea*, boring in cones.

## THIODIA Hübner

- 7059 *T. refusana* Wlk. **LI**: E. New York. Ap-May; Sep.
- 7239 *T. parmatana* Clem. (*crispata* Kf., etc.). Ithaca; **LI**: Forest Pk., *Kch* (Fbs). Je-Sep.
- *T. alterana* Hein. Ithaca, Aug.
- *T. marmontana* Hein. Ithaca, Jl-Aug.
- 7054 *T. formosana* Clem. E. Aurora, *Dnd* (Fbs); Rock City; Ithaca; McLean; Karner; Ramapo; **SI**: Watchogue. End of May-Je.
- 7053 *T. ferruginana* Fern. Black Br.; E. Aurora; Rock City; Ithaca; McLean; **SI**; **LI**: Forest Pk., *Kch* (Fbs). May-Je.
- 7051 *T. roseoterminana* Kf. E. Aurora (*Wild*).
- 7052 *T. awemeana* Kf. Crosby; McLean; Ithaca. May-Je.
- 7048 *T. radiatana* Steph. N. Elba; Castile, Je, *Brad* (Fbs); E. Aurora, Buffalo (*Wild*); McLean; Big Ind. Val.; Ramapo; Bronxville; **LI**: Oyster Bay. End of May-Je.
- 7065 *T. striatana* Clem. Peru; Oswego; E. Aurora, Niagara Falls; Crosby; Karner; Nassau; Ramapo; New Windsor; Katonah; Ithaca. End of May-Aug.
- 7067 *T. clavana* Fern. "NY" (Hein).
- 7063 *T. ochroterminana* Kf. Potter Swamp; Ithaca. Aug-Sep.



- 7075 **T. raracana** Kf. E. Aurora, Aug, *Wild* (Fbs); **LI**: Forest Pk., Central Pk., Aug, *Kch* (Fbs).  
 — **T. perfuscana** Hein. Ithaca, Aug.  
 6976 **T. tomonana** Kf. E. Aurora, *Wild* (Fbs); Ithaca. Aug-Sep.  
 7062 **T. imbridana** Fern. **LI**: Forest Pk., Aug 31, *Kch* (Fbs).  
 7061 **T. olivaceana** Rly. McLean; Rhinebeck. Je-Aug.

**SPILONOTA** Stephens(*Tmetocera* Lederer)

- 7170 **S. ocellana** Schiff. BUD-MOTH. Common and general wherever apples are grown. Je-early Aug. Apple and other Rosaceae.

**STREPSICRATES** Meyrick

- 7171 **S. indentanus** Dyar. "NY", J1 (AM). Myrica.

**SONIA** Heinrich

- 6971 **S. constrictana** Z. **LI**: Glendale, J1 1, 1923, *Kch* (Fbs).

**RHYACIONIA** Hübner(*Evetria* auct. not Hübner; *Retinia* Guenée)

- **R. buoliana** Schiff. EUROPEAN PINE-SHOOT MOTH. Buffalo (NYS); Tarrytown (NYS); NYC (NYS); **LI**: Great Neck; Westbrook; Lynbrook. In tips of pine shoots.  
 6760 **R. frustrana** Coms. Ithaca (Comstock); Karner (Felt). Shoots of scrub pine.  
 6761 **R. rigidana** Fern. Ithaca (Fern). Ap. *Pinus rigida*.  
 — **R. busckana** Hein. **LI**: Bellmore, Central Pk.; Wyandanch, *Kch* (Fbs). Ap.  
 6762 **R. comstockiana** Fern. Ithaca (Comstock); Karner (Felt). In young twigs of *Pinus rigida*.  
 6765 **R. gemistrigulana** Kf. Ithaca, J1 10, 1924 (Fbs).

**PROTEOTERAS** Riley

- 7134 **P. naracana** Kf. Ithaca, end of May-J1.  
 7130 **P. aesculana** Rly. Ithaca, Je. Maple and buckeye.  
 7135 **P. moffatiana** Fern. Lancaster; E. Aurora; Ilion; Ithaca; Big Ind. Val. Je. Maple.

**GRETCHINA** Heinrich

- **G. amatana** Hein. Gowanda and E. Aurora (*Wild*); Castile, Je, *Brad* (Fbs); Ithaca; Crosby; McLean. May-early Je.  
 7116 **G. deludana** Clem. Buffalo, E. Aurora (*Wild*); Crosby; Ithaca. May-early Je.  
 7126 **G. bolliana** Sling. Gowanda, Buffalo, E. Aurora (*Wild*). Sep. Pecan.  
 — **G. semialba** McD. McLean, May (paratypes).

## EXENTERA Grote

- 7120 *E. maracana* Kf. Ithaca; McLean. End of Mar–Ap.  
 6992 *E. improbana* Wlk. Ithaca. Exact distribution uncertain because of confusion with *E. spoliata*.  
 7121 *E. spoliata* Clem. Ithaca, Mar–Ap. Chestnut.  
 7117 *E. haracana* Kf. Buffalo, Je (*Wild*).  
 7139 *E. costomaculana* Clem. Gowanda; Rock City; Portage; Crosby; Ithaca. Ap–May.  
 7138 *E. virginiana* Clem. Ithaca; Pearl R.; Albany. Ap–May.

## GYPSONOMA Meyrick

- 7146 *G. fasciolana* Clem. Peru; McLean; Karner; New Windsor; **LI**: Wyandanch, May 30, *Kch* (Fbs). Jl.  
 — *G. substitutionis* Hein. Ithaca, Jl.  
 7148 *G. haimbachiana* Kf. E. Aurora, Je, willow (*Wild*); **LI**: Forest Pk., Glendale, May and Jl–Aug, *Kch* (Fbs).  
 7159 *G. salicocolana* Clem. Ithaca, Je–Jl. Willow.

## PSEUDOGALLERIA Ragonot

- 6878 *P. inimicella* Z. Ithaca, Je. Rootstocks of Smilax.

## EPISIMUS Walsingham

- 7110 *E. argutatus* Clem. Speculator; E. Aurora (*Wild*); Crosby; Ithaca; NYC. May–Sep. Various shrubs, especially Rhus and Hamamelis; also Euphorbia.  
 — *E. tyrius* Hein. **LI**: Westbury Sta., Queens Co (type). Maple.

## OLETHREUTES Hübner

- 6869 *O. bipartitana* Clem. N. Elba; Fentons; Oswego; Jamestown; Rock City; Millerville; Otto; Castile; McLean; Ithaca; Big Ind. Val.; Albany; Ramapo; **LI**: Forest Pk., *Kch* (Fbs). May–Je; Aug.  
 6865 *O. fuscibana* Z. Peru; N. Twin Br., Mt. Marcy; Newcomb; Rock City; Ithaca; McLean; Trenton Falls; Ft. Edward. Je–Aug.  
 — *O. castorana* McD. Ithaca, Je 30–Aug.  
 — *O. polluxana* McD. N. Twin Br., Mt. Marcy; Peru. Je–Jl.  
 6864 *O. campestrana* Z. Cranberry L., *Htly* (Bsk); Peru; Rock City; Ithaca; McLean; Trenton Falls; Albany (NYS). Je. Cherry.  
 6853 *O. abietana* Fern. Buffalo (CU Econ); Ithaca; Whitehall (CU Econ); **LI**: Woodmere, *Leon* (Fbs). Spruce.  
 6819 *O. deceptana* Kf. Peru; McLean. Je–Aug.  
 6862 *O. instrutana* Clem. Peru; Saranac Inn; Newport; Fentons; Batavia; E. Aurora and Buffalo (*Wild*); Otto; Ithaca; Schenectady; Rhinebeck; New Windsor; **LI**: Central Pk., *Kch* (Fbs). Jl–Sep. Clover or buckeye; arrow-wood (*Wild*).

- 6834 *O. coruscana* Clem. Fentons; Newport; Gowanda, E. Aurora (Wild); Rock City; Portage; Big Ind. Val.; Albany; Poughkeepsie; New Windsor; NYC; **LI**: Lynbrook, Je-Jl.
- 6835 *O. constellatana* Z. Otto; Rock City; Portage; Ithaca; McLean; Trenton Falls; Big Ind. Val.; Schenectady. Je.
- 6843 *O. astrologana* Z. Mt. Marcy; Newcomb; E. Aurora, Buffalo (Wild); Ithaca. Jl.
- 6838 *O. coronana* Kf. Trenton Falls, Je.
- 6839 *O. major* Wlsm. N. Twin Br., Mt. Marcy, Jl.
- *O. youngana* McD. Wilmington, Jl—early Aug.
- 6821 *O. nimbatana* Clem. ROSE BUD-WORM. E. Aurora, Buffalo (Wild); Ithaca; McLean; Albany; Rhinebeck; Scarsdale. Je-Aug. Rose.
- 6825 *O. separatana* Kf. Ithaca; Big Ind. Val. May-Aug. Rose and blackberry.
- 6821 *O. montanana* Kf. Ithaca.
- 6859 *O. duplex* Wlsm. Peru; Cranberry L., *Htly* (Bsk); E. Aurora, Buffalo (Wild); Portage; Ithaca; Ilion. Je-Jl. Poplar.
- 6816 *O. albeolana* Z. Big Ind. Val.; Karner; New Windsor; **LI**: Orient, Sep 9, *Lath.* Je-Jl. White birch.
- 6847 *O. chionosema* Z. Buffalo, E. Aurora (Wild); Ithaca; Schenectady; Albany. Thorn and apple.
- 6871 *O. impudens* Wlsm. Newcomb; Rock City; Batavia; McLean. Je-Jl.
- 6827 *O. hebesana* Wlk. Castile, *Brad* (Fbs); E. Aurora (Wild); Crosby; Ithaca; McLean; Nassau; New Windsor; **LI**: Forest Pk., *Kch* (Fbs). Je—end of Sep. General feeder.
- 6831 *O. agilana* Clem. Buffalo, Colden (Wild); Portage; Potter Swamp; Ithaca. May-Jl. Impatiens.
- 6830 *O. auricapitana* Wlsm. Ithaca. Je; Aug 1.
- *O. infuscata* Hein. Ithaca.
- *O. approximana* Hein. Rensselaer, May 26, 1916, *Yg* (NYS).

#### PHAECASIOPHORA Grote

- 6877 *P. confixana* Wlk. **LI**: Creedmoor, *Kch* (Fbs). May-Aug.
- 6873 *P. niveiguttana* Grt. "NY" (Fern). Late May. Sassafras and Hamamelis.

#### CYMOLOMIA Lederer

(*Exartema* Clemens)

- 6804 *C. fasciatana* Clem. E. Aurora, Gowanda, Lime L. (Wild); Otto; Rock City; Salamanca (Wild); Ithaca; McLean; New Windsor; **LI**: Forest Pk., *Kch.* Je-Jl. Rumex.
- *C. rusticana* McD. Peru; Ithaca; **LI**: Coram, *Kch* (Fbs). Jl.
- *C. electrofusca* Hein. Ithaca, May-Jl. Sweet fern.
- *C. micantana* Kf. E. Aurora, Buffalo (Wild); Ithaca. Je. Dogwood.
- 6799 *C. olivaceana* Fern. Buffalo (Wild); Ithaca; New Windsor, *Morton*. Je-Jl.
- 6803 *C. appendicea* Z. E. Aurora, *Wild* (Fbs); Rock City (aberration with pale antemedial fascia); Ithaca; Trenton Falls; **LI**: Forest Pk., *Kch* (Fbs). Je-Jl. Oak; alder (Wild).

- 6800 *C. concinnana* Clem. E. Aurora; Ithaca; McLean; West Farms, *Angus*.  
Je-Jl. Blackberry.
- C. concinnana* var. *terminana* McD. E. Aurora, Jl (Wild).
- 6797 *C. zelleriana* Fern. Portage, Jl-Aug. White birch.
- 6805 *C. corylana* Fern. Buffalo (Wild); E. Aurora; Ilion. Je-Jl. Hazel.
- 6798 *C. permundana* Clem. E. Aurora, Buffalo (Wild); Ithaca; **LI**: Coram,  
*Kch* (Fbs). Jl. Raspberry and Opulaster (Rosaceae), and huckleberry.
- 6796 *C. sericorana* Wlsm. Elba and E. Aurora (*Wild*); Ithaca, Jl; **LI**: Coram,  
*Kch* (Fbs).
- *C. melanomesa* Hein. Ithaca. Jl.
- 7545 *C. merrickana* Kf. Crosby; Ithaca; Portage (red variety). Je-Jl. Witch-  
hazel.
- 6801 *C. punctana* Wlsm. E. Aurora; Buffalo (Wild); Ithaca. Je-Jl. Cornus.
- *C. cornana* Hein. E. Aurora, *Wild* (Fbs); Buffalo (Wild); Ithaca. Jl.  
Cornus.
- 6806 *C. exoleta* Z. E. Aurora, *Wild* (Fbs); Ithaca. Je-Aug. Hazel or gooseberry.
- *C. tiliana* Hein. Ithaca, Je-Jl. Basswood.
- 6793 *C. nitidana* Clem. E. Aurora, Buffalo, Jl (*Wild*).
- *C. nigrana* Hein. S. Wales, *Wild* (Fbs); Geneva; Ithaca. Jl-Aug.
- 6807.1 *C. claviana* Wlk. S. Wales (*Wild*); Ithaca. Jl-early Aug.
- 6807.2 *C. quadrifida* Z. Peru; Ithaca. Je-Jl. Cornus.
- 6807 *C. inornatana* Clem. E. Aurora, Gowanda (*Wild*); Ithaca; **LI**: Forest Pk.,  
*Kch* (Fbs). Je-Aug. Wild cherry.
- 6809 *C. footiana* Fern. Hemlock L.; Ithaca. Je-Aug. Witch-hazel.
- *C. tenebrica* Hein. McLean, Jl (types). No other specimens are known.

## POLYCHROSIS Ragonot

- 6784 *P. yaracana* Kf. Gowanda, *Wild*. May-Je.
- 6786 *P. rhoifructana* Kf. Near Rochester, May. Rhus, Cornus, and Kalmia.
- 6779 *P. viteana* Clem. GRAPE-BERRY MOTH. E. Aurora (*Wild*); Orleans Co,  
usually light infestation; Chautauqua Co, usually scarce (Hartzell);  
Ithaca; Karner; **SI**: Stapleton, New Brighton (CU Econ); **LI**: Orient  
Pt., Latham. Grape.

## SUBFAMILY TORTRICINAE

## SPARGANOTHIS Hübner

- 7306 *S. violaceana* Rob. Peru; Rock City; Ithaca; McLean; Schoharie; Karner  
(Fbs). May-Jl.
- 7303 *S. irrorea* Rob. Gowanda, E. Aurora (*Wild*); Otto; Ithaca. Je-early Aug.
- 7304 *S. xanthoides* Wlk. Newcomb; Portage; Gowanda, E. Aurora, Colden  
(Wild); Potter Swamp; Ithaca; McLean; Liberty; Big Ind. Val.;  
Putnam Co; New Windsor. Je-Jl. Mint.
- 7302 *S. cana* Rob. **LI**: Glendale, Jl 10, 1918, *Kch* (Fbs).
- 7315 *S. caryae* Rob. Lewis Co, Je-Sep. General feeder.
- 7307 *S. unifasciana* Clem. (*puritana* Rob.). Newport; North Creek; Wells;  
Ithaca; Trenton Falls; Karner. End of Je; Aug.

- 7316 *S. sulfureana* Clem. Newport; Honeoye Falls; Buffalo; E. Aurora; Castile; Portage; Ithaca; McLean; Big Ind. Val.; Liberty; Pearl R.; New Windsor; **LI**: E. New York. Je-Sep. General feeder.
- 7322 *S. tristriata* Kf. "NY", Sep.
- 7296 *S. diluticostana* Wlsm. Newark; Batavia; Otto; E. Aurora, Buffalo (*Wild*); Ithaca. Je-Aug. Oak, cherry, and syringa.
- 7294 *S. reticulatana* Clem. North Creek; McLean (Fbs).
- 7295 *S. ferreana* Bsk. Ilion, Jl.
- 7293 *S. karacana* Kf. Batavia. Bayberry and scrub oak.
- 7288 *S. pettitana* Rob. Rochester; Batavia; Elba, E. Aurora (*Wild*); Rock City; Ithaca; Little Falls; Schenectady; Pine I.; **LI**: Great R. On various plants, especially maple.
- 7332 *S. idaeusalis* Wlk (*sentana* Clem.). North Creek; Buffalo, E. Aurora, Gowanda (*Wild*); Otto; Ithaca; McLean; Big Ind. Val.; New Windsor; **SI**: Clove Val.; **LI**: Forest Pk., *Kch* (Fbs). Je-Aug. Solanum, Solidago, clover, and other herbs.
- 7331 *S. exasperatana* Z. Ithaca, Jl-Aug.
- 7323 *S. flavedana* Clem. Putnam Co; New Windsor; NYC; **SI**: Clove Val.; **LI**: Jamaica; Glendale, *Kch* (Fbs). General feeder.

#### AMORBIA Clemens

- 7286 *A. humerosana* Clem. E. Aurora, Gowanda (*Wild*); Castile, Je, *Brad* (Fbs); Ilion; Crosby; Ithaca; McLean; Big Ind. Val.; New Windsor; **LI**: Forest Pk., *Kch*. May-Je.

#### COELOSTATHMA Clemens

- 7281 *C. discopunctanum* Clem. Newcomb; E. Aurora; Otto; Ithaca; McLean; Ilion; Schenectady; Rhinebeck; **LI**: Forest Pk., *Kch* (Fbs). Je-Aug. Clover.

#### ADOXOPHYES Meyrick

- 7282 *A. furcatana* Wlk. Ithaca, Je-Sep.

#### ARGYROTOXA Stephens

- 7410 *A. bergmanniana* L. Buffalo (*Wild*).
- 7409 *A. albicomana* Clem. N. Elba; Batavia; Buffalo (*Wild*); Rock City; Ithaca; Albany; Rhinebeck; Crugers; NYC; **SI**; **LI**: Glendale, *Kch* (Fbs). Je-Jl. Rose.
- 7409.1 *A. curvalana* Kf. **LI**: Cold Sp., Je 12, 1921, *Kch* (Fbs).
- 7409.2 *A. semipurpurana* Kf. Buffalo, Salamanca (*Wild*); Ithaca, abundant; **LI**: Forest Pk., *Kch* (Fbs). Je-Jl. Rose and oak.
- A. semipurpurana* var. *dorsipurpurana* Kf. Ithaca, Je-Jl.

#### PERONEA Curtis

- 7419 *P. minuta* Rob. var. *cinderella* Rly. YELLOW-HEADED CRANBERRY WORM McLean (*cinderella* only); Johnstown, *Alex* (Bsk). Sep.
- 7427 *P. angusana* Fern. West Falls, *EPV* (Fbs); Ithaca. End Jl-Sep.



- 7443 *P. subnivana* Wlk. Wilmington; E. Aurora; Ithaca; Albany. Late fall to spring. Vernonia.
- 7446 *P. cervinana* Fern. Cranberry L., *Htly* (Bsk).
- 7429 *P. heindeliana* Fern. Ithaca (?). In "pine-cone" gall on willow.
- 7422 *P. trisignana* Rob. Big Ind. Val.; Bronx, NYC; **SI**; **LI**. White birch.
- 7435 *P. nigrolinea* Rob. Boston, Sep (Wild).
- P. placidana* Rob. E. Aurora, Allegany Pk., *Wild* (Kf, as *parisiana*).
- 7440 *P. chalybeana* Fern. Ithaca; McLean. Aug; Oct-May.
- 7425 *P. nivisellana* Wlsm. Buffalo, E. Aurora, Aug (Wild); Ithaca. Crataegus.
- *P. variegana* Schiff. Clinton, Jl. Larvae on various trees and shrubs.
- 7423 *P. logiana* Schiff. Ithaca; Karner; New Windsor. Viburnum.
- 7439 *P. hastiana* L. Albany; New Windsor. Determinations doubtful. Vaccinium and Andromeda.
- *P. n. sp.* near *hastiana*. Hemlock L.; Ithaca; McLean.
- 7431 *P. maculidorsana* Clem. McLean, Sep.
- 7426 *P. variana* Fern. McLean; Mt. Whiteface, just below tree line.
- 7413 *P. ferrugana* Schiff. Wilmington; Ithaca (US); Taughannock. White birch.

## TORTRICODES Guenée

- *T. fragariana* Bsk. Ithaca, common, Aug-Sep. Strawberry.

## CNEPHASIA Curtis

- 7402 *C. argentana* Cl. Trenton Falls, Jl.
- 7401 *C. osseana* Scop. var. *niveosana* Pck. Lewis Co, Je, *Hill* (Fern).
- 7374 *C. peritana* Clem. Newcomb; Otto; E. Aurora, *Wild* (Fbs); Ithaca; McLean; Ramapo; West Farms. May-Jl; Sep.
- 7377 *C. virescana* Clem. Rock City; Portage; Crosby; Ithaca. Je.
- 7503 *C. listerana* Kf. E. Aurora, Jl, *Wild* (Fbs).

## HARMOLOGA Meyrick

- 7400 *H. fumiferana* Clem. SPRUCE BUD-WORM. Adirondack and Allegheny Highlands; Syracuse, Utica (NYS); E. Aurora, Buffalo (Wild); **LI**: Glendale, Jl 23, 1913, *Kch* (Fbs). Spruce.

## EULIA Hübner

- 7389 *E. ministrana* L. Summit and N. Twin Br., Mt. Marcy; N. Elba Twp.; Keene, *Wild* (Fbs); Castile, *Brad*; Ithaca; Big Ind. Val. Je. Many trees and shrubs.
- 7390 *E. velutinana* Wlk. RED-BANDED LEAF-ROLLER. Newark; Honeoye Falls; Lewiston; E. Aurora; Salamanca; Ithaca; Delmar; Albany; New Windsor; Florida; **LI**: Jamaica, Forest Pk., Glendale, *Kch* (Fbs); Orient, *Lath*. Ap-Oct. Two or three broods, with maxima in May, Jl. and late Aug. Almost any plants except conifers; even reported from balsam fir.

- 7394 **E. pinatubana** Kf. Peru; Portage; Ithaca. Pine.  
 7393 **E. gloverana** Wlsm. Lewis Co, May.  
 7396 **E. mariana** Fern. E. Aurora, *Wild* (Fbs); Jamestown; Castile, *Brad*; Ithaca; Ilion; Ramapo. May-Jl. Vaccinium.  
 7399 **E. juglandana** Fern. Batavia, E. Aurora, Buffalo (*Wild*); Ithaca; NYC; **LI**: Brooklyn. Je-Aug. Hickory and Viburnum.  
 7398 **E. quadrifasciana** Fern. Lewis Co; Batavia; E. Aurora, Buffalo, *Wild* (Fbs); Albion; Ithaca. May-Jl.  
 7364 **E. quercifolia** Fitch. Buffalo (*Wild*); Ithaca; Big Ind. Val.; Albany; **LI**: Forest Pk., Coram, *Kch* (Fbs). Je-Jl. Oak and buckthorn.  
 7397 **E. alisellana** Rob. Ithaca; Bethlehem; **LI**: Forest Pk., *Kch* (Fbs). Je-early Jl.

## TORTRIX Linnaeus

- 7388 **T. afflictana** Wlk. Ithaca; Albany; New Windsor. May. Fir.  
 7367 **T. clemensiana** Fern. Peru; Newport; Lewiston; Honeoye Falls; Buffalo; Rock City; Castile, *Brad*; Potter Swamp; Ithaca; McLean; Big Ind. Val.; Utica; Albany; New Windsor; **SI**; **LI**: Brooklyn. Var. *nervosana* Kf. occurs at Peru and Ithaca. May-Je; Aug-Sep. Goldenrod (*Wild*).  
 7366 **T. pallorana** Rob. Newport; Honeoye Falls; Batavia; Buffalo (*Wild*); Castile, *Brad*; Potter Swamp; Ithaca; McLean; Albany; Hunt's Pt., *Kch* (Fbs); **LI**: Forest Pk., *Kch* (Fbs). Je-Jl; Aug-Sep. Cherry. Silphium; Verbena; clover (*Wild*).  
 7369 **T. alleniana** Fern. Peru; Newcomb. Jl. General feeder.

## ARCHIPS Hübner

(*Cacoecia* Hübner)

- 7363 **A. conflictana** Wlk. Peru; Batavia; Buffalo, E. Aurora (*Wild*); Ithaca. **LI**: Woodhaven; Forest Pk., *Kch* (Fbs). Je-Jl.  
 7345 **A. obsoletana** Wlk. STRAWBERRY LEAF-ROLLER. Peru; Essex Co; Ithaca; McLean; Albany; Putnam Co; Katonah; **SI**: Clove Val. Jl-Aug (largely Sep in 1924). General feeder.  
 7360 **A. parallela** Rob. W. Albany; **SI**: Clove Val.  
 7358 **A. purpurana** Clem. Fentons; Rochester (Angle); E. Aurora, Salamanca (*Wild*); Castile, *Brad*; Ithaca; McLean; Schoharie; Albany. Geranium, probably a general feeder.  
 7356 **A. fractivittana** Clem. Buffalo (*Wild*); Castile, *Brad*; Ithaca; Trenton Falls. Je.  
 7361 **A. rosaceana** Harr. OBLIQUE-BANDED LEAF-ROLLER. Common. Je (Jl in 1924). General on trees and shrubs; rarely on clover.  
 7340 **A. rosana** L. Thousand Isls.; Buffalo, E. Aurora, Jl, *Wild* (Fbs); Johnstown (Alex); Albany; West Farms. General feeder.  
 7343 **A. infumatana** Z. Irving; Lime L., Allegany Pk., Je-Jl (*Wild*).  
 7348 **A. fervidana** Clem. OAK WEBWORM. Ithaca; East Branch (NYS); **LI**: Coram, *Kch* (Fbs); Westbury (NYS). Jl-Aug. Oak.

- 7349 **A. cerasivorana** Fitch. CHERRY UGLY-NEST TORTRICID. Peru; Essex Co; Fentons; Forestport (NYS); Honeoye Falls; Erie Co, general; Little Val. (CU Econ); Ithaca; McLean; Alder Cr. (NYS); Big Ind. Val.; Schenectady; Albany; Chatham, Ellenville (NYS); Blauvelt (NYS); Albany; New Windsor; E. Greenbush (NYS). J1–Aug. Wild cherry.
- 7342 **A. persicana** Fitch. Peru; N. Elba; Fentons; Newport; E. Aurora, *Wild* (Fbs); Rock City; Castile, *Brad*; Ithaca; Liberty; DeBruce; Big Ind. Val.; Ballston; Schenectady. Je. Various plants.
- 7341 **A. dissitana** Grt. Uphill Br., Mt. Marcy; Buffalo; Jamestown; Ithaca; Ilion. J1. Probably on conifers.
- 7353 **A. argyrospila** Wlk. FRUIT-TREE LEAF-ROLLER. Common and general. Je, rarely J1. General on trees and shrubs, often injurious to apple and pear.
- 7353b **A. mortuana** Kf. Castile, *Brad*; Ithaca; McLean. Je–J1.
- 7354 **A. semiferana** Wlk. Newport; Ithaca; Albany; **LI**: Forest Pk., *Kch* (Fbs).
- 7387 **A. grisea** Rob. Ithaca, Je, Oak and Rudbeckia.
- 7359 **A. magnoliana** Fern. E. Aurora, *Wild* (Fbs); Rock City; Ithaca. Je. *Magnolia acuminata*.
- 7357 **A. melaleucana** Wlk. Peru; Castile, Je, *Brad* (Fbs); N. Elba; Batavia; E. Aurora; Vandalia; Rock City; Portage; Ithaca; McLean; Big Ind. Val.; Schuyler; New Windsor; **SI**. May–Je. Trillium and Polygonatum.

## PANDEMIS Hübner

- 7336 **P. limitata** Rob. Buffalo (*Wild*); Ithaca; McLean; Schenectady. Je–Sep. General feeder, especially on trees.
- 7337 **P. lamprosa** Rob. E. Aurora, Buffalo (*Wild*); Ithaca; McLean; Schenectady; Albany; **SI**. Je–Aug.
- 7333 **P. canadana** Kf. E. Aurora, Buffalo, Je–J1 (*Wild*); Castile, Aug 3, 1924, *Brad* (Fbs).

## FAMILY PHALONIIDAE

## HYSTEROSIA Stephens

- 7547 **H. birdana** Bsk. E. Aurora (*Wild*); Ithaca (Fbs); **SI** (Bird). Aug. Crown of *Rudbeckia laciniata* (Bird).
- 7546 **H. terminana** Bsk. Buffalo (*Wild*); Ithaca; Slaterville; Catskills (Pears). Je–Aug.
- 7562 **H. modestana** Bsk. Alexandria Bay, Thousand Isls., late Je, *Kch* (Fbs); Ithaca.
- 7550 **H. baracana** Bsk. Alexandria Bay, Thousand Isls., *Kch* (Fbs); Ithaca; McLean. Late Je–Aug.
- 7544 **H. cartwrightiana** Kf. E. Aurora (*Wild*); Slaterville; Ithaca; McLean. J1.

## PHARMACIS Hübner

- 7529 **P. vitellinana** Z. Peru, Black Br., Je (Fbs); Keene, *Wild* (Fbs).

## PHALONIA Hübner

- 7461 **P. rutilana** Hbn. JUNIPER WEBWORM. **LI** (introduced about 1878). Je. Juniper.
- 7468 **P. labeculana** Rob. Ramapo. May.

- 7467 *P. argentiimitana* Rob. Ithaca. Jl 28–Aug 1, and early Sep.  
 7513 *P. biscana* Kf. Peru; Ithaca; McLean. Jl–Aug.  
 7462 *P. dorsimaculana* Rob. E. Aurora (*Wild*); Ithaca; Trenton Falls. Je–Sep.  
 7463 *P. promptana* Rob. Ithaca; **LI**: Forest Pk., *Kch* (Fbs). Je–Aug.  
 7466 *P. angulatana* Rob. Peru; Buffalo, Allegany Pk., *Wild* (Fbs); Slaterville; Ithaca; McLean. Jl–Oct.  
 7510 *P. rana* Bsk. Rye, Aug–Sep. Ironweed.  
 7454 *P. smeathmanniana* Fab. Newcomb; E. Aurora, *Wild* (Fbs); Ithaca. Jl–early Aug.  
 7446 *P. floccosana* Wlk. Ithaca. Je.  
 7447 *P. atomosana* Bsk. Ithaca; McLean. Aug.  
 7456 *P. louisiana* Bsk. Ramapo (Kf). May–Jl.  
 7449 *P. straminoides* Grt. (*zaracana* Kf.). Buffalo; E. Aurora (*Wild*); Ithaca; Trenton Falls. Aug.  
 7259 *P. plummeriana* Bsk. Peru. Je.  
 7478 *P. bunteana* Rob. Wells; Ithaca; Poughkeepsie. Je–Sep. *Lactuca scariola*.  
 7509 *P. albidana* Wlk. (*winniana* Kf.). Rock City; Ithaca; Trenton Falls. May–Jl.  
 7487 *P. oenotherana* Rly. Vic. NYC (Wat); **LI**: Glendale, *Kch* (Fbs). Ap; Jl; Sep. Evening primrose.  
 7531 *P. ednana* Kf. McLean. Je–Jl.  
 7481 *P. marloffiana* Bsk. Ithaca. Ap; Aug.  
 7482 *P. lavana* Bsk. Ithaca. Je and Aug. Penstemon.

## COMMOPHILA Hübner

- 7496 *C. bana* Kf. **LI**: Forest Pk., late Aug, *Kch* (Fbs).

## FAMILY CARPOSINIDAE

## CARPOSINA Herrich-Schaeffer

- 7556 *C. fernaldana* Bsk. E. Aurora, Buffalo, Colden (*Wild*); Ithaca. Je–Aug. Nearly ripe currants (Sling).

## BONDIA Newman

- 7554 *B. crescentella* Wlsm. Rock City, not rare (Fbs); Castile; McLean (Fbs); Big Ind. Val. May.

## FAMILY COSSIDAE

## ACOSSUS Dyar

- 8351 *A. centerensis* Lint. Peru; Batavia; Lestershire (Binghamton); Karner (type); **LI**: Brooklyn. Poplar.

## PRIONOXYSTUS Grote

- 8354 *P. robiniae* Peck. CARPENTER WORM. Plattsburg; Peru; Ogdensburg; Brockport; Buffalo; E. Aurora (*Wild*); Ithaca; Oneonta; Albany; **SI**; **LI**: Brooklyn, common. One Ithaca specimen is practically var. *reticulatus* Lint. Je. In many trees, preferring soft woods.

- 8355 **P. macmurtrei** Guér. OAK CARPENTER WORM. Buffalo; Ithaca; Schoharie; Crugers; West Pt. (Ds); Newburgh; NYC; **SI**; **LI**: Brooklyn; Woodhaven; Newtown. Je. Oaks.

**ZEUZERA** Latreille

- 8339 **Z. pyrina** L. LEOPARD MOTH. NYC and north to Ossining in Westchester Co; also reported injurious to apple in Orange Co (Felt). Je-Jl. General feeder on trees.

FAMILY **THYRIDIDAE**

**THYRIS** Laspeyres

- 4888 **T. maculata** Harr. New Russia, *Jones*; Lancaster; E. Aurora, Gowanda (*Wild*); Castile, *Brad*; Newport; DeBruce; Kingston; Poughkeepsie; Esopus; Ft. Montgomery, Ramapo (Ds); **LI**. End of May-Jl. Larva probably on Clematis.
- 4889 **T. lugubris** Bdv. Ithaca (*Eyer*); Karner; Bronxville; Van Cort. Pk. (Wat); **SI**; **LI**: Brooklyn; Wading R. Late May-Jl. Grape.

FAMILY **PYRALIDIDAE**

SUBFAMILY **SCHOENOBIIINAE**

**RUPELA** Walker

- 5304 **R. albinella** Cr. **SI**; **LI**: Forest Pk., *Kch* (Fbs).

**SCHOENOBIVS** Duponchel

- 5309 **S. unipunctellus** Rob. **LI**: Forest Pk., Jl 26, 1923, large var., *Kch* (Fbs).
- 5311 **S. melinellus** Clem. Buffalo, *Wild*; Otto; Ithaca; McLean; **LI**: Forest Pk., *Kch* (Fbs). Je-early Aug.
- 5314 **S. longirostrellus** Clem. Newport; Newcomb; North Creek; Niagara Falls; E. Aurora, *Wild*; Otto; Ithaca; McLean; Little Falls; Albany; New Windsor; **LI**: Orient, *Lath*. Je-Jl.

SUBFAMILY **CHRYSAUGINAE**

**TOSALE** Walker

- 5277 **T. oviplagalis** Wlk. Allegany Pk., giant var. (*Wild*); Ithaca; **LI**: Cypress Hills, *Kch*. May-Jl.

**GALASA** Walker

- 5273 **G. nigrinodis** Z. Buffalo, *EPV* (Fbs); E. Aurora, *Wild* (Fbs); Ithaca; McLean; Big Ind. Val.; Schenectady; Nassau; Highland; New Windsor; Florida; Katonah; NYC. Je-early Aug; Sep.

**ARTA** Grote

- 5285 **A. statalis** Grt. **LI**: Coram, Jl 17, 1921, *Kch* (Fbs).



**CONDYLOLOMIA** Grote

- 5297 **C. participialis** Grt. Allegany Pk., *Wild* (Fbs); Rock City; Ithaca; Katonah. Je-Aug.

**POLLOCCIA** Dyar

- 5296 **P. alticolalis** Dyar. Jamestown, *McElhose* (Dyar); Ithaca (Fbs); McLean (Fbs). Jl-Aug.

SUBFAMILY **GALLERIINAE****GALLERIA** Fabricius

- 5448 **G. mellonella** L. BEE MOTH. Commonly distributed throughout the State. Larvae in ill-kept beehives, eating and webbing up the comb; also a scavenger in waste wax, etc.

**PARALISPA** Butler

- 5450 **P. terrenella** Z. Ithaca; McLean; vic. Albany. End Je-Aug.  
5452 **P. decorella** Hulst. Buffalo (Grt).

SUBFAMILY **GLAPHYRIINAE****GLAPHYRIA** Hübner

- 4899 **G. glaphyralis** Guen. Rochester, *Angle*; West Falls (*Wild*); Otto; Ithaca. Jl-Aug.  
4900 **G. sesquialis** Hbn. Ithaca; Ulster Co. Je-Aug; Oct.  
4902 **G. psychicalis** Hulst. **LI:** Coram, Jl 17, 1921, *Kch* (Fbs).  
4901 **G. lentiflualis** Z. **LI:** Coram, Jl 17, 1921, *Kch* (Fbs).  
4904 **G. fulminalis** Led. "NY" (Grt). Late Je-Jl.

**LIPOCOSMA** Lederer

- 4913 **L. sicalis** Wlk. "NY" (AM). May-Jl.  
4914 **L. fuliginosalis** Fern. Grand I. (*Wild*); Otto; Allegany Pk. (*Wild*); McLean; **LI:** Forest Pk., *Kch* (Fbs). Je; Sep.

**DICYMOLOMIA** Zeller

- 5444 **D. julianalis** Wlk. Portage; Ithaca; New Windsor; Riverdale; Bronxville. Late Je-Aug. Cattail heads.

SUBFAMILY **PYRAUSTINAE****HYMENIA** Hübner

- 4919 **H. perspectalis** Hbn. SPOTTED BEET-WEBWORM. Keene, Buffalo, E. Aurora (*Wild*); Ithaca, Aug, *Babiy* (Fbs). Late autumn. Larva on beet and chard; in greenhouses also on *Alternanthera*.

- 4920 *H. fascialis* Cr. HAWAIIAN BEET-WEBWORM. **LI:** Glendale, Sep, *Kch.* A stray from the South. Beet, chard, mangels, Amaranthus, and various weeds.

**DESMIA** Westwood

- 4921 *D. funeralis* Hbn. GRAPE LEAF-ROLLER. Lewiston; Honeoye Falls (Angle); Buffalo; Niagara Falls; E. Aurora (*Wild*); Ithaca; McLean; Big Ind. Val.; Ontario Mt.; Schenectady; Rhinebeck; New Windsor; Pearl R.; Katonah; **LI:** Forest Pk., *Kch.* May-Oct. Grape; more rarely on Oenothera and Cercis.

**DIASTICHTIS** Hübner

- 4933 *D. argyralis* Hbn. Albany; New Windsor; Poughkeepsie; Crugers; Pearl R.; **SI:** Clove Val.; **LI:** East N. Y.; Orient, *Lath.* Jl.

**BLEPHAROMASTIX** Lederer

- 4955 *B. ranalis* Guen. Buffalo; E. Aurora, Gowanda (*Wild*); Ithaca; Poughkeepsie; New Windsor; NYC; **LI:** Forest Pk. and Glendale, *Kch* (Fbs). Jl. Chenopodium.
- 4956 *B. stenialis* Guen. Buffalo, Gowanda (*Wild*); New Windsor. Je-Jl.

**PANTOGRAPTA** Lederer

- 4960 *P. limata* G. & R. Vic. Buffalo; Grand I., Allegany Pk. (*Wild*); Ithaca; Big Ind. Val.; Ilion; Poughkeepsie; New Windsor; **LI.** Je-Aug. Linden.

**PILOCROCIS** Lederer

- 4937 *P. ramentalis* Led. Ithaca, Oct-Nov. A stray from the South.

**EUDIOPTIS** Hübner

(*Diaphania*)

- 4974 *E. nitidalis* Cr. PICKLE WORM. Albany, Aug. Cucurbitaceae.
- 4977 *E. hyalinata* L. MELON WORM. Buffalo; **LI:** Brooklyn. On melon.
- 4978 *E. quadristigmalis* Guen. Ithaca; New Windsor; **LI:** Cypress Hills, *Kch.*

**CONDYLORRHIZA** Lederer

- 5061 *C. vestigialis* Guen. Ithaca. Willow (Murt).

**METREA** Grote

- 4980 *M. ostreonalis* Grt. Peru, Jl, *Everett.*

**EVERGESTIS** Hübner

- 5004 *E. straminalis* Hbn. PURPLE-BACKED CABBAGE WORM. Common everywhere. May-Sep. Cruciferae.
- 5000 *E. rimosalis* Guen. CROSS-STRIPED CABBAGE WORM. **LI.**

**CROCIDOPHORA** Lederer

- 5005 *C. serratissimalis* Z. Newport; vic. Buffalo; Otto; Potter Swamp; Ithaca; Schenectady; Poughkeepsie; New Windsor; NYC. Je-Sep.  
 5008 *C. tubercularis* Led. Buffalo; Lancaster; Ithaca; New Windsor; **LI**. Je-Jl.

**SAMEODES** Snellen

- 4985 *S. adipaloides* G. & R. Buffalo; Ithaca; McLean; Big Ind. Val.; Schenectady; Rhinebeck. Jl-Sep.

**NOMOPHILA** Hübner

- 5012 *N. noctuella* Schiff. Very common throughout the State. Je-Oct. General feeder on low plants, especially Polygonum.

**LOXOSTEGE** Hübner

- 5101 *L. helvalis* Wlk. **LI**: Forest Pk., Glendale, Je, *Kch* (Fbs). Sep.  
 5025 *L. similalis* Guen. GARDEN WEBWORM. Saranac Inn; Ithaca; Albany; Nassau; **LI**: Woodhaven; Glendale and Coram, *Kch* (Fbs). General feeder.  
 5031 *L. sticticalis* L. SUGAR-BEET WEBWORM. Ithaca; Big Ind. Val.; **LI**: E. New York. General feeder.  
 5032 *L. commixtalis* Wlk. "NY" (Grt).  
 5018 *L. chortalis* Grt. Black Br.; Uphill Br., Mt. Marcy; Alexandria Bay, Thousand Isls., *Kch* (Fbs); Clayton; Buffalo; Niagara Falls (Wild); Ithaca; Big Ind. Val.; Onteora Mt.; Karner; Albany; Rhinebeck; New Windsor. May-Aug.  
 5016 *L. dasconalis* Wlk. New Windsor; **LI**: Central Pk., *Kch* (Fbs). Je-Aug. Baptisia.  
 5020 *L. marculeta* G. & R. General. May-Aug. Solidago.

**THOLERIA** Hübner

- 5064 *T. reversalis* Guen. Ithaca; Oneonta; New Windsor; **SI**; **LI**: Glen Cove (in a conservatory). Je-Jl. Baptisia and Lonicera.

**PERISPASTA** Zeller

- 5087 *P. caecularis* Z. Ithaca, Jl 3, '25 (Fbs). Je-Aug.

**CINDAPHIA** Lederer

- 5103 *C. bicoloralis* Guen. Elba (Wild); E. Aurora, Buffalo (*Wild*); Lancaster; Ithaca; McLean (Fbs); Big Ind. Val.; Albany; Rhinebeck; Poughkeepsie; New Windsor; NYC; **LI**: Orient, *Lath*. May-Sep.

**PHLYCTAENIA** Hübner

- 5088 *P. rubigalis* Gn. (*ferrugalis* auct.). CELERY LEAF-TIER. Rochester; Brockport; Buffalo; E. Aurora, Allegany Pk. (Wild); Crosby; Ithaca; Auburn; Big Ind. Val.; Albany; Hudson Falls (NYS); Pearl R.;

New Windsor; NYC; **LI**: Forest Pk., *Kch* (Fbs); Lynbrook (NYS). Common all the year. General feeder on herbs; often injurious to greenhouse plants.

- 5098 **P. acutella** Wlk. Vic. Buffalo; Potter Swamp; Ithaca; McLean; Karner; Nassau; New Windsor. Je-Aug.
- 5099 **P. terrealis** Tr. Peru; North Creek; Adirondack Lodge, *Bish*; Alexandria Bay, Thousand Isls., *Kch* (Fbs); Buffalo; Lancaster; Jamestown; Crosby; Ithaca; McLean; Big Ind. Val.; Onteora Mt.; Ft. Edward; Schenectady; Rhinebeck; New Windsor; **LI**: Jamaica, Forest Pk., *Kch* (Fbs). May; Aug. Solidago.
- 5100 **P. extricalis** Guen. Peru; Newcomb; McLean; Big Ind. Val.; Schenectady; **LI**: Belmont Pk., Wyandanch, Glendale, *Kch* (Fbs). May-Je; J1; Sep. Alder.
- 5022 **P. helvialis** Wlk. Black Br.; Allegany Pk., *Wild* (Fbs); Ithaca; McLean; Neversink. J1-early Aug. Poplar.
- 5116 **P. theseusalis** Wlk. Mt. Marcy; Lewis Co; Lewiston; Ithaca; Karner; Hudson Falls (NYS); Rhinebeck; Katonah; New Windsor. J1. Ferns.
- 5102 **P. tertialis** Guen. Common everywhere. May-J1; Aug. Elder.
- 5132 **P. fumalis** Guen. Wilmington; Saranac L.; Old Forge; Newcomb; North Creek; Fentons; Adirondack Lodge, *Bish*; Honeoye Falls; E. Aurora; Oak Orchard Swamp; Ithaca; Big Ind. Val.; Karner; New Windsor. Je-Sep.

## PYRAUSTA Schrank

- 5111 **P. pertextalis** Led. Fentons; Rochester, *Angle*; Honeoye Falls; Buffalo; E. Aurora; Ithaca; Big Ind. Val.; Albany; New Windsor; NYC; **LI**: Lynbrook; Forest Pk., *Kch* (Fbs). Two broods, flying mainly in Je and Aug. Juglans, Asarum, Cornus, and nettle (Wild).
- 5114 **P. thestealis** Wlk. Mt. Marcy; Lewis Co; Lewiston; Buffalo; E. Aurora; Ithaca; Karner; Rhinebeck; Katonah; New Windsor; **LI**: Orient, Oct, *Lath.* Je-J1. Corylus, linden, and Evonymus.
- 5112 **P. fissalis** Grt. Rochester, *Angle*; E. Aurora, Niagara Falls, Gowanda (*Wild*); Castile, *Brad*; Otto; Ithaca; McLean; Utica; Little Falls; Catskills; **LI**: Jamaica, *Kch* (Fbs). Je-Aug. Sassafras and goldenrod; wild bergamot (Wild).
- 5113 **P. aeglealis** Wlk. Rochester, *Angle*; Buffalo (EPV); Liberty (Morton); Ithaca; McLean; **SI**: Buck's Hollow. Je-Aug. Phytolacca.
- 5119 **P. flavidalis** Guen. Florida; New Windsor; **LI**. Late J1-Aug. Vernonia.
- 5129 **P. penitalis** Grt. Stuyvesant, Hopewell Jct. (NYS); **LI**: Lynbrook; Orient, *Lath.* Water lily and Nelumbo; rarely in other aquatic plants.
- **P. ainslei** Hein. Dr. Felt reports the following distribution: Lockport; N. Collins; Ithaca; Schenectady; Ballston L.; Scotia; Albany; Nassau; Stuyvesant Falls; Hopewell Jct. The species is doubtless generally distributed south of the Adirondacks. May; Aug-Sep. Polygonum.
- **P. nubilis** Hbn. EUROPEAN CORN-BORER. This introduced pest was first discovered at Scotia, Schenectady Co., Jan 1919, and at N. Collins, Erie Co, Sep 1919. It now occurs in the western part of the State from L. Erie to Monroe, Livingston, Wyoming, and Allegany Counties. In the eastern part of the State it occurs in Washington, Rensselaer, Saratoga, Albany, Schoharie, Montgomery, Fulton, and southern Hamilton Counties. It has been recorded also from southern Herkimer, Mad-

- ison, Otsego, and Ulster Counties. Larva a serious pest in corn and other coarse herbaceous plants.
- 5125 *P. illibalis arsaltealis* Wlk. Buffalo; E. Aurora (*Wild*); Ithaca; Big Ind. Val.; New Windsor. May-Jl.
- 5134 *P. futilalis* Led. Peru; Mt. Marcy; Lewis Co; Keene, *Wild* (Fbs); Lewiston; Alexandria Bay, Thousand Isls., *Kch* (Fbs); Crosby (NYS); Ithaca; Karner (yellow form); Albany; Poughkeepsie; New Windsor. Je-Jl.
- 5135 *P. fumoferalis* Hulst. Mt. Marcy; Lewis Co; Ithaca; Schenectady. Je-Jl. Presumably on hickory.
- 5140 *P. unifascialis subolivalis* Pck. Peru; Axton; Fentons; Lancaster; West Falls; E. Aurora; Liberty; Portage; Potter Swamp; Ithaca; McLean; Big Ind. Val.; Karner; Nassau; Rhinebeck; New Windsor. Je-Jl.
- 5142 *P. fodinalis* Led. Lewiston; E. Aurora (*Wild*); Lancaster; Buffalo; Ithaca; Big Ind. Val.; Onteora Mt.
- 5145 *P. phoenicealis* Hbn. "NY" (Wlk). Apple.
- 5148 *P. acronialis* Wlk. Old Forge; Newport; Honeoye Falls, *Angle*; Buffalo, E. Aurora (*Wild*); Speculator; Lancaster; Otto; McLean (Fbs); Ithaca; Big Ind. Val.; Utica; Rhinebeck; Ft. Montgomery; NYC. Je-Sep.
- 5155 *P. ochosalis* Hol. N. Elba; Oak Orchard Swamp; E. Aurora, Niagara Falls (*Wild*); Ithaca. Je-Aug.
- 5154 *P. generosa* G. & R. Fentons; Newport; Lancaster; Buffalo; Karner; Sloatsburg. I have verified none of these records, which may belong wholly, or in part, to *P. ochosalis*.
- 5157 *P. laticlavica* G. & R. "NY" (Grt). Aug.
- 5158 *P. tyralis* Gn. E. Aurora, Lancaster, Allegany Pk. (*Wild*).
- 5162 *P. signatalis* Wlk. Lewiston; Niagara Falls, Buffalo (*Wild*); New Windsor, *Morton*. May; Aug-Sep. Horse mint.
- 5171 *P. unimacula* G. & R. Ramapo; Brewster (Grt). End May-Aug.
- 5152 *P. subsequalis* Guen. Black Br. (male). Je-late Jl. Thistle.
- 5152a *P. subsequalis* Guen. var. *madestisalis* Wlk. Black Br.; Saranac L.; Ithaca; Big Ind. Val.; Ilion; Schuyler; Nassau; Rhinebeck; New Windsor; Suffern; NYC; **SI**: Tottenville; **LI**: Cypress Hills, *Kch*. Ap-Jl.
- 5176 *P. funebris* Ström. Very common everywhere. Je-Jl. Solidago.
- 5175 *P. niveicillialis* Grt. Orchard Pk., West Falls, Gowanda (*Wild*); Crosby; Ithaca; Albany; Poughkeepsie; New Windsor; **LI**: Forest Pk., *Kch*. May-Je; Aug.

## BOEOTARCHA Meyrick

- *B. demantrialis* Druce. Ithaca; **LI**: Glendale, *Kch* (Fbs). Jl-Aug.

## LOXOSTEGOPSIS Dyar

- *L. merrickalis* B. & McD. Ithaca, Jl.

## THELCTERIA Lederer

- 5178 *T. pupula* Hbn. Kinderhook, Sep, *Bish*; Poughkeepsie; New Windsor; **LI**: Brooklyn; E. New York; Forest Pk., Je 24, *Kch*; Orient, Aug 1, *Lath*.



## SUBFAMILY NYMPHULINAE

## NYMPHULA Schrank

- 5209 *N. ekthlipsis* Grt. Ithaca; Michigan Swamp, Danby; Albany. Sedge.
- 5208 *N. icciusalis* Wlk. Saranac L.; Saranac Inn; Lancaster; Buffalo, E. Aurora (Wild); Otto; Potter Swamp; Ithaca; McLean; Big Ind. Val.; Nas-sau; Rhinebeck; New Windsor; **LI**: Cold Sp. (*Kch*). Je-Aug. Potamogeton, sedge, Lemna, Menyanthes, and other aquatic plants.
- 5204 *N. oblitalis* Wlk. WATER-LILY LEAF-CUTTER. Hemlock L.; Rhinebeck; **LI**: Forest Pk., *Kch* (Fbs). Usually a greenhouse pest northward, but the Hemlock L. specimens, at least, were taken outdoors. Water lilies, sometimes injurious.
- 5206 *N. gyralis* Hulst. Big Tupper L.; Saranac L.; Lewiston; Castile, *Brad*. Water lily.
- 5198 *N. maculalis* Clem. Saranac L.; Big Tupper L.; Lewis Co; Spencer L. Water lilies.
- 5200 *N. obscuralis* Grt. Alexandria Bay, Thousand Isls., *Kch* (Fbs); Waddington; Potter Swamp; Ithaca. Potamogeton and Vallisneria.
- 5202 *N. badiusalis* Wlk. Saranac L.; Alexandria Bay, Thousand Isls., *Kch* (Fbs); Waddington; Lake Bluff; N. Fair Haven; Buffalo; Grand I. (*Wild*); Hemlock L.; Ithaca; McLean; Rhinebeck; Ulster Co (Dyar). Jl-Aug.

## ELOPHILA Hübner

- 5216 *E. magnificalis* Hbn. "NY" (Grt). Jl.
- 5212 *E. bifascialis* Rob. Waddington; Honeoye Falls; Buffalo (*Wild*); Ithaca. Aug-Sep.
- 5217 *E. fulicalis* Clem. Peru; Waddington; Lancaster; Niagara Falls; Buffalo, E. Aurora (*Wild*); Jamestown; Honeoye Falls; Ithaca. Je-early Sep. Larva on rocks under water.

## DIATHRAUSTA Lederer

- 5226 *D. reconditalis* Wlk. Niagara Falls; Ithaca; Albany; Pearl R. Je-Jl; Sep.

## GESHNA Dyar

- 5225 *G. primordialis* Dyar. Vandalia; Crosby; Ithaca; McLean; Big Ind. Val. Je-Jl.

## SUBFAMILY SCOPARIINAE

## SCOPARIA Haworth

- 5235 *S. centuriella* Schiff. Alexandria Bay, Thousand Isls., *Kch* (Fbs); Plattsburg; Peru; Newcomb; Essex Co; Saranac Inn; Fentons; Rochester; Buffalo; Ithaca; New Windsor. End Je-Jl.
- 5238 *S. penumbrales* Dyar. North Creek; Rock City; Vandalia; McLean. Je.
- 5244 *S. basalis* Wlk. Adirondacks and Albany (unverified); Alexandria Bay, Thousand Isls., *Kch* (Fbs); Niagara Falls; Lewiston; Hemlock L.; Rock City; Otto; Crosby; Ithaca; McLean; Big Ind. Val.; Rhinebeck; New Windsor; NYC; **LI**: Forest Pk., *Kch* (Fbs). Je-Sep. Common on tree trunks.

- 5239 *S. cinereomedia* Dyar. E. Aurora, West Falls (*Wild*); Otto; Ithaca. J!  
 5241 *S. strigalis* Dyar. Ithaca, J1-Aug.  
 5242 *S. lugubralis* Wlk. McLean(?), female, Je-early Aug.

## SUBFAMILY PYRALIDINAE

## PYRALIS Linnaeus

- 5253 *P. farinalis* L. MEAL SNOUT-MOTH. Generally distributed, J1, etc. Larva injurious to meal, etc.  
 5254 *P. costiferalis* Wlk. Saranac Inn; Ithaca; Big Ind. Val.; Albany. J1-Aug.  
 5255 *P. disciferalis* Dyar. Ithaca, J1.

## AGLOSSA Latreille

- 5250 *A. cuprina* Z. Alexandria Bay, Thousand Isls., *Kch* (Fbs); Buffalo (*Wild*); Ithaca; Rhinebeck. Je-Sep.  
 5249 *A. suprealis* Hbn. Mt. Marcy (Hill Coll.); Buffalo, *EPV* (Fbs); Ithaca; Poughkeepsie (NYS); New Windsor, *Morton*; **LI**: Brooklyn; Glendale (*Kch*); Orient, *Lath.* Je-J1.

## HYPSOPYGIA Hübner

- 5259 *H. costalis* Fab. CLOVER HAY WORM. Ogdensburg; Lewiston; E. Aurora; Buffalo; Castile, *Brad*; Sherwood, Cayuga Co; Ithaca; Gloversville; Big Ind. Val.; Onteora Mt.; vic. Albany; Amenia (NYS); Rhinebeck; N. Hillsdale; New Windsor. Stored hay.

## HERCULIA Walker

- 5261 *H. intermedius* Wlk. Mt. Marcy; Fentons; Buffalo; Ithaca; Hastings; New Windsor; Katonah; **LI**: Glendale, *Kch* (Fbs). Je-early Aug.  
 5268 *H. olinalis* Guen. Lancaster; Peru; Ithaca; Big Ind. Val.; Schenectady; New Windsor; NYC; **SI**: Clove Val.; **LI**: Forest Pk., *Kch* (Fbs). Je-J1.  
 5264 *H. thymetusalis* Wlk. Saranac Inn; Mt. Marcy; Fentons; Albany; New Windsor.

## SUBFAMILY ANCYLOLOMIINAE

## PRIONAPTERYX Stephens

- 5322 *P. nebulifera* Steph. Karner; **LI**: Yaphank; Coram, *Kch* (Fbs). May-Aug, Oct. Sand-barren Ericaceae.

## SUBFAMILY CRAMBINAE

## DIATRAEA Guilding

- 5431 *D. comptulalis* Hulst. Ithaca.  
 5432 *D. forbesellus* Fern. Buffalo. Scirpus.  
 5440 *D. allenii* Fern. Newport; Big Ind. Val.

## CHILO Zincken

- 5430 *C. plejadellus* Zinck. Ithaca, Jl. Rice and presumably other swamp grasses.

## ARGYRIA Hübner

- 5419 *A. nivalis* Dru. Newcomb; North Creek; Newport; Locust L.; Lewiston; Lancaster; E. Aurora, Salamanca (*Wild*); Ithaca; McLean; Big Ind. Val.; Utica; Schenectady; Little Falls; Hebron (WIs); Albany; Rhinebeck; New Windsor; Katonah; NYC; **LI**: Cypress Hills, *Kch.* Je-Aug.
- 5421 *A. auratella* Clem. Salamanca (*Wild*); Ithaca; McLean; Albany; Rhinebeck; Katonah. Jl.
- *A. critica* Fbs. McLean; Ithaca; Utica; **LI**: Coram, *Kch* (Fbs); Orient, Sep, *Lath.* Jl.

## THAUMATOPSIS Morrison

- 5403 *T. pexella* Z. New Windsor, *Morton*.

## CRAMBUS Fabricius

- 5358 *C. laqueatellus* Clem. Common everywhere. Je-early Jl. Larva on moss, refusing grass.
- 5356 *C. myellus* Hbn. Karner, Jl.
- 5355 *C. agitatellus* Clem. N. Elba; summit of Mt. Marcy; Newcomb; North Creek; Rock City; Ithaca; McLean; Trenton Falls; Schenectady; New Windsor; Crugers; **LI**: Lynbrook. Jl.
- 5353 *C. alboclavellus* Z. Adirondack Lodge; Keene; Newport; Lewiston; Buffalo; West Falls; Potter Swamp; Ithaca; McLean; Big Ind. Val.; Utica; Schenectady; New Windsor; Ft. Montgomery; Katonah; **LI**: Cypress Hills. Jl-Aug. Grass.
- 5348 *C. labradoriensis* Christoph. "NY" (type of *dissectus* Grt.).
- 5347 *C. bidens* Z. Niagara Falls; McLean. Aug.
- 5344 *C. praefectellus* Zinck. Common everywhere. Je; Aug.
- 5342 *C. leachellus* Zinck. Wilmington; Saranac L.; Newport; Ithaca; NYC; **LI**: Yaphank. Je-Jl.
- 5343 *C. unistriatellus* Pck. Saranac Inn; North Creek; Newport; Trenton Falls; Schenectady.
- 5341 *C. girardellus* Clem. Saranac Inn; Adirondack Lodge; Newcomb; North Creek; Fentons; Rochester, *Angle*; Batavia; West Falls; Orchard Pk.; Allegany Pk.; Rock City; Otto; Castile; Ithaca; McLean; Trenton Falls; Liberty; Big Ind. Val.; Schenectady; Nassau; Ft. Montgomery; New Windsor; Katonah; NYC; **LI**: Cypress Hills. Je-Jl.
- 5338 *C. floridus* Z. Ithaca; McLean. Je-Jl. Grass.
- 5336 *C. hamellus* Thunb. Saranac Inn; Albany. Aug.
- 5362 *C. albellus* Clem. Buffalo; Orchard Pk.; Salamanca; Rock City; Ithaca; McLean; Trenton Falls; Big Ind. Val.; Schenectady; Poughkeepsie; New Windsor. Je-Jl. Grass.
- *C. biguttellus* Fbs. Ithaca, Aug.
- 5332 *C. satrapellus* Zinck. Buffalo, Salamanca, Jl (*Wild*).

- 5366 *C. elegans* Clem. Wilmington; Speculator; Buffalo, E. Aurora (*Wild*); Otto; Ithaca; McLean; Katonah; New Windsor; NYC; **SI**; **LI**: Forest Pk., *Kch* (Fbs). Jl-Sep. Grass.
- 5367 *C. polingi* Kf. E. Aurora, *Wild* (Fbs); Ithaca; McLean. Jl.
- 5365 *C. turbatellus* Wlk. E. Aurora, West Falls (*Wild*); Otto; Rock City; Allegany Pk. (*Wild*); Ithaca; McLean; Big Ind. Val. Jl.
- 5364 *C. perlellus innotatellus* Wlk. Wilmington; N. Elba; Saranac Inn; Newcomb; Newport; Otto; Big Ind. Val.; Onteora Mt. Jl-Aug. Grass.
- 5372 *C. teterrellus* Zinck. "NY" (AM). Je-Jl. Grass.
- 5373 *C. decorellus* Zinck. Ithaca; New Windsor. Jl-Aug.
- 5368 *C. vulgivagellus* Clem. Common and general. Aug-Sep. Various grasses and grains.
- 5371 *C. ruricolellus* Z. Ausable L.; Wilmington; Saranac Inn; Honeoye Falls; Batavia; Buffalo; E. Aurora; Allegany Pk.; Hemlock L.; Ithaca; McLean; Liberty; Big Ind. Val.; Onteora Mt. Aug-Sep. Grass and sorrel.
- 5384 *C. mutabilis* Clem. Peru; Newport; Lancaster; E. Aurora; Buffalo; Otto; Rock City; Ithaca; McLean; Big Ind. Val.; New Windsor; NYC; **LI**: Forest Pk., *Kch* (Fbs). End of Je-Sep. Grass.
- 5361 *C. hortuellus topiarius* Grt. Common and general. Je-Aug. Various low plants; sometimes injurious to cranberry.
- 5362 *C. trisectus* Wlk. Newport; Fentons; Newcomb; North Creek; Honeoye Falls; Batavia; Buffalo; Lewiston; Otto; Ithaca; McLean; Big Ind. Val.; Little Falls; Schenectady; Nassau; Rhinebeck; New Windsor; **LI**: Lynbrook. Je, Aug (Jl, Sep, in 1924). Grass.
- 5397 *C. caliginosellus* Clem. E. Aurora; Buffalo; Irving; Lancaster; Otto; Ithaca; McLean; Saratoga Sps.; Nassau; Troy; Greenwich; Millerton, Pine Plains, Salt Pt. (NYS); New Windsor. Je-end of Aug. Sometimes injurious to young corn.
- 5398 *C. zeellus* Fern. Adirondack Lodge; Alexandria Bay, Thousand Isls., *Kch* (Fbs); Batavia; Ithaca; McLean; Big Ind. Val.; Little Falls; Albany; Rhinebeck; Katonah; **SI**. Je-Aug. Injurious to corn. This and *C. caliginosellus* are really only varieties of *C. luteolellus*.
- 5399 *C. luteolellus* Clem. Peru; Newcomb; Alexandria Bay, Thousand Isls., *Kch* (Fbs); Adirondack Lodge; E. Aurora; Buffalo; Gowanda; Jamestown; Auburn; Aurora; Ithaca; McLean; Utica; Hyndsville; Little Falls; Katonah. Je-Aug.

#### RAPHIPTERA Hampson

- 5331 *R. argillaceella* Pck. McLean Bogs.

#### SUBFAMILY EPIPASCHIINAE

##### EPIPASCHIA Clemens

- 5467 *E. superatalis* Clem. New Windsor; Chappaqua; **LI**: Glendale, *Kch* (Fbs).

##### ONEIDA Hulst

- 5476 *O. lunulalis* Hulst. Ithaca, Je-Aug.

## TETRALOPHA Zeller

- 5490 *T. asperatella* Clem. E. Aurora; Allegany Pk.; Rock City; Ithaca; New Windsor, *Morton*. Je-Aug. Oak, maple, elm, and beech.  
 5483 *T. melanogrammos* Z. Ithaca; New Windsor, *Morton*. Jl-early Aug. Shrubby Leguminosae (*Gleditsia*, *Prosopis*).  
 5489 *T. militella* Z. Ithaca; Ilion; Rhinebeck (*Dyar*); Onteora Mt. *Platanus*.  
 5496 *T. baptisiella* Fern. "NY" (*Fern*). *Baptisia*.

## SUBFAMILY PHYCITINAE

## MYELOIS Hübner

- 5509 *M. bistriatella* Hulst (*bilineatella* Rag.). "NY", Je (*Ragonot*, *Hulst*).

## RHODOPHAEA Guenée

- 5518 *R. exsulella* Z. Ithaca, Jl 10 (Fbs).

## ACROBASIS Zeller

- 5532 *A. angusella* Grt. Ithaca(?) (female only); West Farms (type); LI: Brooklyn. Je-Jl. Hickory.  
 5533 *A. demotella* Grt. Ithaca; West Farms. Je-Jl. Black walnut.  
 5532 *A. eliella* Dyar. Ithaca. Je-Jl; Aug.  
 5531 *A. aurerella* Ely. Ithaca; Ilion; LI: Glendale, *Kch* (Fbs). Jl-Aug.  
 5530 *A. stigmella* Dyar. Buffalo, Jl, *Wild* (Fbs); Ithaca, Aug (Fbs). Hickory.  
 5528 *A. caryivorella* Rag. Ithaca, Aug 23 (Fbs). Hickory.  
 5541 *A. caryae* Grt. "NY" (Grt). Je. *Carya porcina*.  
 5520 *A. kearfottella* Dyar. E. Aurora, *Wild* (Fbs); Ithaca. Jl-Aug. Hickory.  
 5521 *A. feltella* Dyar. Warner (NYS).  
 5523 *A. palliolella* Rag. Ithaca, Jl (Fbs). Walnut and pecan.  
 5537 *A. latifasciella* Dyar. McLean (a little doubtful without breeding record). Je-early Jl; Aug. Hickory.  
 5543 *A. rubrifasciella* Pck. Ithaca. Aug. Determination uncertain, lacking bred material.  
 5544 *A. comptoniella* Hulst. Rhinebeck. Sweet fern and bayberry.  
 5542 *A. betulella* Hulst. Buffalo, E. Aurora (*Wild*); Ithaca. End of Jl. Birch.  
 5548 *A. tricolorella* Grt.<sup>64</sup> Ithaca; Catskills. Jl.  
 5553 *A. indigenella* Z. (*Mineola*). APPLE LEAF-CRUMPLER. Ithaca; Big Ind. Val.; S. Byron (NYS); Schenectady; Albany. Jl. Sometimes injurious to apple, and eats most other Rosales.

## DIORYCTRIA Zeller

(*Pinipestis* Hulst)

- 5569 *D. zimmermani* Grt. ZIMMERMAN'S PINE MOTH. Oswego Co; Gowanda; Cheektowaga; Hamburg; Clarence Center; Buffalo; Ithaca; Karner; Schenectady; Hastings; Tarrytown. Aug. Pine.

<sup>64</sup> This is the species so determined by Ragonot and others. It stands in the U. S. National Museum as *scitulella* Hulst.



- *D. n. sp.* Ithaca, Aug (div.) Predacious on white-pine weevil (TCBarnes).  
 5565 *D. abietella* Fab. Buffalo, Jl, *EPV*; **LI**: Great Neck and Garden City, on pine (*Hein*).

## GLYPTOCERA Ragonot

- 5585 *G. consobrinella* Z. McLean. End of May – Aug.

## NEPHOPTERYX Hübner

- 5596 *N. ovalis* Pck. Cincinnatus, *Dnd* (Fbs); Ithaca; McLean; Rhinebeck; Delmar. Late Jl–Aug.

## TLASCALA Hulst

- 5610 *T. reductella* Wlk. E. Aurora, *Wild* (Fbs); Ithaca; New Windsor. May. Gleditsia.

## MEROPTERA Grote

- 5614 *M. pravella* Grt. E. Aurora; Ithaca; McLean; Lancaster; New Windsor. Mar–Jl(?). Willow or *Rhus Cotinus*.  
 5615 *M. unicolorella* Hulst. Ithaca. Late May–Aug.

## SALEBRIA Zeller

- 5631 *S. contatella* Grt. Peru; Keene, E. Aurora, *Wild* (Fbs); Ithaca; Albany; New Windsor; **LI**: Forest Pk., *Kch* (Fbs). May–Jl; Aug. Locust.  
 — *S. leucochrysella* Hulst ms. Ithaca, Jl–Aug (Fbs).  
 5638 *S. semiobscura* Hulst. "NY". Jl. Sumac.  
 5630 *S. carneella* Hulst. Ithaca, Jl 11, 1924 (Fbs). Willow.

## IMMYRLA Dyar

- 5617 *I. nigrovittella* Dyar. Ithaca. May–Jl.

## MYRLAEA Ragonot

- 5650 *M. vetustella* Dyar. Ithaca, May.

## LAODAMIA Ragonot

- 5653 *L. fusca* Haw. Waterville; Rochester; Ithaca. Jl–Aug. Vaccinium and willow.

## ELASMOPALPUS Blanchard

- 5657 *E. lignosellus* Z. LESSER CORN-STALK BORER. Ithaca, Je 11, 1924 (a stray?).

## MELITARA Walker

- 5693 *M. prodenialis* Wlk. Southern NY, end of Jl. Opuntia.

## ZOPHODIA Hübner

- 5705 *Z. grossulariae* Rly. GOOSEBERRY FRUIT-WORM. Lancaster (EPV). Currants and gooseberries.

## EUZOPHERA Zeller

- 5722 *E. ostricolorella* Hulst. "NY" (Hulst). May-Jl. Bark of the trunk of tulip tree.  
 5721 *E. ochrifrontella* Z. Ithaca; McLean; LI: Forest Pk., *Kch* (Fbs). May; Jl-Aug.  
 5720 *E. semifuneralis* Wlk. AMERICAN PLUM BORER. Lancaster (EPV); Ithaca; McLean; Kinderhook. Aug-Sep. Peach and plum.

## VITULA Ragonot

- 5726 *V. edmandsii* Pck. Buffalo; Ithaca; McLean. Je-Oct. Larvae in bumblebee nests.

## LAETILIA Ragonot

- 5730 *L. coccidivora* Comst. Albany. Larva feeding on soft scales (Pulvinaria).

## CANARSIA Hulst

- 5734 *C. ulmiarrosorella* Clem. Peru; North Creek; Otto; Ithaca; McLean; New Windsor. End of Je-Aug. Elm, rarely hickory.

## HULSTIA Ragonot

- 5743 *H. undulatella* Clem. Niagara Falls; Kinderhook; LI: Forest Pk., *Kch* (Fbs). Jl-Aug.

## HOMOEOSOMA Curtis

- 5772 *H. stypticellum* Grt. Fentons; Ithaca. Je-Jl. Larvae apparently in the panicles of *Rhus glabra*.  
 5765 *H. uncanale* Hulst. Ithaca, Aug (Fbs).  
 5771 *H. mucidellum* Rag. Ithaca, Jl-Sep. Gnaphalium and apparently in chicory seed.

## EPHESTIA Guenée

- 5799 *E. kuehniella* Z. MEDITERRANEAN FLOUR-MOTH. Castile; Ithaca; undoubtedly generally distributed. Sometimes in injurious numbers. Usually in meal, showing a decided preference for rolled wheat.  
 5801 *E. cautella* Wlk. Albany. Larva commonest in dried figs.  
 5804 *E. elutella* Hbn. Albany. Rotten wood.

## EPHESTIODES Ragonot

- *E. n. sp.* Ithaca; McLean. Aug.  
 5781 *E. infimella* Rag. Ithaca(?), Je. Seeds of Ambrosia.

## MOODNA Hulst

- 5795 *M. ostrinella* Clem. Rochester; E. Aurora (*Wild*); Otto; Ithaca. Late Jl-Aug. Sumac heads (*Cy*), and acorns (*Murt*).  
 5795 *M. pelviculella* Hulst. Irving, *Wild* (*Fbs*); Ithaca. Jl-Aug.

## PLODIA Guenée

- 5807 *P. interpunctella* Hbn. INDIAN MEAL MOTH. Common generally. Stored grain, occasionally on other dried foods.

## SUBFAMILY ANERASTIINAE

## PEORIA Ragonot

- 5834 *P. bipartitella* Rag. **LI**: Coram, Jl 17, 1921, pink var., *Kch* (*Fbs*).  
 5835 *P. approximella* Wlk. Peru; Lancaster; E. Aurora; Buffalo; Allegany Pk.; Castile; Ithaca; McLean; Big Ind. Val.; Rhinebeck; New Windsor; Katonah. Je-Aug.

## FAMILY PTEROPHORIDAE: THE FEATHER-WINGS

## PLATYPTILIA Hübner

- 5881 *P. pallidactyla* Haw. Peru; Newcomb; North Creek; Black Br.; Adirondack Lodge; Rochester, *Angle*; Buffalo; Rock City; Castile, Je, *Brad* (*Fbs*); Potter Swamp; Portage; Ithaca; McLean; Karner; Albany; **LI**: Orient, *Lath*. Je-early Aug. Yarrow and Senecio.  
 — *P. auriga* B. & L. Ithaca, May-Sep.  
 5870 *P. tesseradactyla* L. Castile, Je, *Brad* (*Fbs*); Crosby; Ithaca; W. Danby; Karner. May. Gnaphalium.  
 5869 *P. carduidactyla* Rly. **LI**: Glendale, Aug 24, 1919, *Kch* (*Fbs*). Thistle.  
 5864 *P. acanthodactyla* Hbn. E. Aurora; Buffalo; Otto, West Farms (doubtful). May. Ononis, Pelargonium, Euphrasia, and other mints.

## OXYPTILUS Zeller

- 5857 *O. periscelidactylus* Fitch. GRAPE PLUME-MOTH. Buffalo; E. Aurora; Union Village; Batavia; Ithaca; Schenectady; Ballston; Albany; Menands; Poughkeepsie; New Windsor; Scarsdale; **SI** (NYS); **LI**: Forest Pk., *Kch* (*Fbs*); Mineola (NYS). End of May-Jl. Grape.  
 5860 *O. tenuidactylus* Fitch. Keene Val.; Wells; Geneva; Buffalo; E. Aurora; Rock City; Castile, *Brad*; Ithaca; Schenectady; Albany; Poughkeepsie. May; Jl-Aug. Blackberry.

## TRICHOPTILUS Walsingham

- 5856 *T. lobidactylus* Fitch. E. Aurora, *Wild* (*Fbs*); Ithaca; Ilion; NYC; **LI**: Glendale, *Kch* (*Fbs*). Je; end of Jl-early Aug. Solidago.

STENOPTILIA Hübner

- 5949 *S. pterodactyla* L. Reported from West Farms. Veronica.  
 5946 *S. exclamationis* Wlsm. E. Aurora, *Wild* (Fbs); Ithaca (Fbs). Jl-Aug;  
 . Oct.

OIDAEMATOPHORUS Wallengren

(*Pterophorus* auct.)

- 5924 *O. cretidactylus* Fitch. E. Aurora, Gowanda, Keene (*Wild*). Late Je-Jl.  
 5925 *O. eupatorii* Fern. Elba, *Wild* (Fbs); Ithaca; McLean; Van Cort. Pk. Jl-  
 early Sep. Eupatorium.  
 5928 *O. inquinatus* Z. E. Aurora, Buffalo (*Wild*); Ithaca. Je-Sep. Ambrosia.  
 5907 *O. homodactylus* Wlk. E. Aurora; Buffalo; Allegany Pk.; Ithaca. Solidago.  
 5908 *O. elliotii* Fern. Ithaca; McLean; Nassau(?). Je-Jl. Eupatorium.  
 5896 *O. stramineus* Wlsm. Ithaca, Jl-Sep. Possibly on Anaphalis.  
 5914 *O. lacteodactylus* Cham. Portage; Potter Swamp; Ithaca; LI: Lynbrook.  
 May-Jl.  
 5923 *O. kellicottii* Fish. Ithaca; McLean. Je.  
 — *O. balanotes* Meyr. Ithaca, Je, *Babiy* (Fbs); LI: Orient, May, *Lath*  
 (Fbs).  
 5942 *O. monodactylus* L. Wilmington; Buffalo; E. Aurora; Ithaca; Schenectady;  
 Albany; LI: Orient, *Lath* (NYS). Jl-Sep. Convolvulus and several  
 other herbs.

ADAINA Tutt

- 5890 *A. montana* Wlsm. Buffalo, Jl. Solidago.

FAMILY ORNEODIDAE

ORNEODES Latreille

- 5954 *O. montana* Ckl. Ithaca (possibly introduced), Ap (overwintered adults).  
 Probably on *Centaurea* or *Knautia*.

FAMILY EPIPLEMIDAE

CALLEDAPTERYX Grote

- 4790 *C. dryopterata* Grt. West Farms, *Angus*; LI: Corona. May-early Je;  
 Aug. *Viburnum prunifolium*.

CALLIZZIA Packard

- 4788 *C. amorata* Pck. Keene Val.; Mt. Marcy; N. Elba; Indian Pass; Newcomb;  
 Ithaca; Big Ind. Val.; Albany. End of Je-Jl. *Lonicera dioica*.

FAMILY LACOSOMIDAE

LACOSOMA Grote

- 4793 *L. chiridota* Grt. Binghamton; Poughkeepsie; Ft. Montgomery, May (Ds).  
 Rye (Bird); SI; LI: Yaphank. Je. Oak.

## CICINNUS Blanchard

- 4792 **C. melsheimeri** Harr. **LI:** Amagansett (Ds); Hempstead Plains; Yaphank. Je. Scrub oak.

## FAMILY CITHERONIIDAE

## CITHERONIA Hübner

- 810 **C. regalis** Fab. Brockport; Utica; Lansingburg; Albany; Oak Hill; Clermont; Poughkeepsie; New Windsor; Peekskill; Rye (Bird); S. Nyack; formerly not uncommon in Van Cort. Pk. (Wat); **SI; LI:** Mineola; Rockville Center (NYS). Je. Many shrubs and trees.
- 811 **C. sepulcralis** G. & R. "NY", Je. Pine.

## EACLES Hübner

*(Basilona Boisduval)*

- 813 **E. imperialis** Dru. IMPERIAL MOTH. General from Peru southward. Je, in warmer part of State; J1-Aug at Ithaca. Formerly abundant in Van Cort. Pk., on sassafras (Wat). Many trees, especially pine and maple.

## ADELOCEPHALA Herrich-Schaeffer

- 803 **A. bicolor** Harr. "NY" (Grt, presumably from Buffalo). May; J1; Aug. Locust and Kentucky coffee tree.

## ANISOTA Hübner

- 802 **A. rubicunda** Fab. SPINY MAPLE WORM. General. One brood in the north, Je-early Aug; two broods southward, May-Je and Aug. Maple.
- 797 **A. stigma** Fab. Rochester, *Angle*; Buffalo (*Wild*); Karner; Lansingburg; Poughkeepsie; Rye (Bird); **SI; LI:** Brooklyn; Orient, *Lath* (NYS). May-Je. Oak.
- 800 **A. virginianensis** Dru. Plattsburg; Rochester, *Angle*; Buffalo; E. Aurora; Lancaster; Ithaca; Salem; Albany; Rye (Bird); **SI; LI:** Brooklyn. Je. Oak.
- 798 **A. senatoria** S. & A. Karner; Albany (NYS); Rye (Bird); Bronxville; **SI; LI:** Lynbrook (NYS); Centerport (NYS); Yaphank. Je. Oak, rarely on beech.

## FAMILY SATURNIIDAE

## HEMILEUCA Walker

- 784 **H. maia** Dru. CRAPE MOTH or BUCK MOTH. Karner; Albany; **LI**, general. Sep-Oct. Oak.

## AUTOMERIS Hübner

- 779 **A. io** Fab. IO MOTH. Common and generally distributed. Wilmington; North Creek; Mayfield; Buffalo; Allegany Pk.; Castile; N. Hector; Breesport; Ithaca; McLean; Gloversville; Oneonta; Ballston and southward. Two Ithaca specimens are transitional to variety *lilith* Str. Je-Aug. General feeder.



## TROPAEA Hübner

- 773 **T. luna** L. LUNA MOTH. Degrasse; New Russia; Hamilton; Rochester, Honeoye Falls (Angle); Buffalo; E. Aurora; Allegany Pk.; Rock City; Castile; Franklinville; Watkins; Ithaca; McLean; Trenton Falls; Gloversville; Oneonta; Schoharie; Albany; New Scotland; Saratoga Sps.; E. Chatham; New Windsor; Rye (Bird); NYC (Watson); **SI**; **LI**: Brooklyn. May-Je; Aug. Walnut, birch, beech, and many other trees.
- T. luna** form *rubromarginata* Ds. The first form to appear in the spring at Ithaca (CU), **SI**, and **LI** (Ds).

## TELEA Hübner

- 774 **T. polyphemus** Cr. Common everywhere in the State. Je-Jl. Maple, birch, and many other trees.

## CALLOSAMIA Packard

- 771 **C. promethea** Dru. New Russia; Red Cr.; Syracuse; Rochester, *Angle*; Buffalo; E. Aurora; Ithaca; Berkshire; Elmira; Frankfort; Hoosick Falls; Cropseyville; Albany; common southward. Je-Aug. Caterpillar preferring sassafras and spicebush, wild cherry, and tulip tree.
- 772 **C. angulifera** Wlk. Buffalo; Ithaca (rare); Dutchess Co.; Rye (Bird); Bronx Pk. (Wat); **SI**; **LI**: Brooklyn. Je; Aug. Various trees, especially tulip tree.

## SAMIA Hübner

- 766 **S. cecropia** L. General, not rare. Je. Many trees and shrubs.

## PHILOSAMIA Grote

- 763 **P. walkeri** Fld. (*cynthia* auct. not Dru.). Fourth L., Fulton Chain, "about half a mile above lake at a clearing . . . bred two imagoes" (Wild); Rochester (Angle); Lansingburg (NYS); Livingston; NYC; **SI**. Ailanthus.

## FAMILY EUPTEROTIDAE

## APATELODES Packard

- 3726 **A. torrefacta** S. & A. Rochester, *Angle*; Kingston; Poughkeepsie; New Windsor; Rye (Bird); Greenwood L.; larvae formerly abundant on *Prunus serotina* in Van Cort. Pk. (Wat); **SI**; **LI**: Brooklyn; Lynbrook. Je-Jl. Many trees and shrubs.
- 3728 **A. angelica** Grt. Plattsburg; Ithaca; Bath; Sharon Sps.; Albany; Poughkeepsie; West Pt.; Coldenham; **LI**: Jamaica. May-Jl. Ash and lilac.

## FAMILY LASIOCAMPIDAE

## TOLYPE Walker

- 3738 **T. velleda** Stoll. New Russia, *Jones*; Newport (NYS); Spier Falls; Rochester; Lancaster; Buffalo; E. Aurora; Ithaca; Oneonta; Albany; Lagrangeville (NYS); Rye (Bird); Bronxville; **SI**; **LI**: Southold; Bellport; Jamaica, Yaphank (Ds); Aqueduct (Wat). Sep-Oct. Apple, poplar, and other trees.

- 3743 **T. laricis** Fitch. Plattsburg; Rochester; Cold Water; Buffalo; Ithaca; Albany; Rensselaer; Poughkeepsie; **LI**: Central Pk., *Kch*; Yaphank (Ds). Aug-Sep. Larch; pine (*Kch*).

#### ARTACE Walker

- 3737 **A. punctistriga** Wlk. **LI**: Brooklyn (Ottolengui).

#### MALACOSOMA Hübner

- 3745 **M. americana** Fab. APPLE-TREE TENT-CATERPILLAR. Common and general. Late Je-Aug. Apple, wild cherry, and other Rosaceae.
- 3752 **M. disstria** Hbn. FOREST TENT-CATERPILLAR. McLean (Fbs). Common throughout the State, even on the summit of Mt. Marcy. J1, later than *americana*. Forest trees, especially maple.  
I have seen var. *sylvatica* from Ithaca, Geneva, and Peru; var. *thoracicoidea* from Ithaca and Peru (Fbs).

#### EPICNAPTERA Rambur

- 3754 **E. americana** Harr. AMERICAN LAPPET. Old Forge; New Russia, *Jones*; Rochester; Lancaster; Buffalo; E. Aurora; Ithaca; Oneonta; Rhinebeck; Poughkeepsie; Rye (Bird); **LI**. May-early Je; J1-Aug. Apple, oak, maple, and other trees.  
I have seen var. *ferruginea* Pck. from Ithaca and Karner (Fbs).

#### FAMILY THYATIRIDAE

##### HABROSYNE Hübner

- 3687 **H. scripta** Gosse. Plattsburg; Peru; Essex Co; L. Pleasant; Evans Center; Allegany Pk. (Wild); Rock City; Ithaca; Olivera (Ds); Onteora Mt.; Schenectady; Poughkeepsie; **LI**: Brooklyn. Je; Aug. Blackberry, thimbleberry, and other Rosaceae.
- 3689 **H. rectangula** Ottol. **LI**: Brooklyn (type).

##### PSEUDOTHYATIRA Grote

- 3690 **P. cymatophoroides** Gn. Wilmington (larva); Adirondack Lodge; Newcomb; Plattsburg; Mt. Marcy; Fentons; Clayton; Lancaster; Otto; Allegany Pk.; Ithaca; DeBruce; Sharon; Schenectady; Poughkeepsie; **SI**; **LI**: Newtown. Je-Aug. Oak and thimbleberry.
- P. cymatophoroides** var. **expultrix** Grt. Plattsburg; Fentons; Mt. Marcy; Adirondack Lodge; Newcomb; Clayton; Buffalo; E. Aurora (Wild); Lancaster; Allegany Pk. (Wild); Otto; Rock City; Ithaca; Sharon; Schenectady; Olivera (Ds); Rye (Bird); **SI** (Ds); **LI**.

##### EUTHYATIRA Smith

- 3693 **E. pudens** Gn. Brockport; Lancaster; Ithaca; Dutchess Co; **LI**: Queens (Bell and Eng). May. Cornus.

## FAMILY DREPANIDAE

## EUDEILINEA Packard

- 3756 **E. herminiata** Gn. N. Elba; Fourth L., Fulton Chain; Newcomb; Batavia; Oak Orchard Swamp; Otto; Potter Swamp; Crosby; Taughannock Falls; Ithaca; McLean; Big Ind. Val.; Nassau; Albany; Rhinebeck; Ft. Montgomery (Ds); New Windsor; **SI**. May-Je; Jl-Aug. Cornus.

## DREPANA Schranck

- 3760 **D. arcuata** Wlk. Plattsburg; Peru; Old Forge; Mt. Marcy; Lewis Co; Lancaster; E. Aurora; Castile; Ithaca; McLean; Trenton Falls; Rhinebeck; Ulster Co (Shoe); Oliveria (Ds); Poughkeepsie; West Pt. and Ft. Montgomery (Ds); Rye (Bird); NYC; **SI**; general on **LI**. May-Je; Aug. Birch and alder.

## FALCARIA Haworth

- 3761 **F. bilineata** Pck. Plattsburg; Wilmington; Albany; **SI**; **LI**: Brooklyn; Queens (*Bell and Eng*). May-Je. Birch.
- F. bilineata** var. **levis** Hudson. Known definitely from Cranberry L., *Htly*; Plattsburg; Wilmington; Alpine; Saratoga; Ulster Co (Shoe); Westchester Co; **SI** (Ds); **LI**: Brooklyn. Aug.

## ORETA Walker

- 3757 **O. rosea** Wlk. Peru; Fentons; Mt. Marcy; Protection (Wild); Ithaca; McLean; Big Ind. Val.; Albany; Rhinebeck; Poughkeepsie; **SI**; **LI**: Brooklyn. May-Sep. Viburnum.
- O. rosea** var. **marginata** Wlk. Ithaca; Ulster Co; NYC and vic., *Eliot*; **SI** (Ds). May-Sep.
- 3758 **O. irrorata** Pck. Mt. Marcy; Ithaca. Je-Aug.

FAMILY GEOMETRIDAE<sup>65</sup>

## SUBFAMILY BREPHINAE

## BREPHOS Ochsenheimer

- 3762 **B. infans** Mösch. Karner; Sloatsburg; Van Cort. Pk. (Wat); **SI**; **LI**: Wyandanch; Massapequa (Ds). A northern species that will certainly be found much more general. Mar-early Ap. White birch.

## LEUCOBREPHOS Grote

- 3766 **L. brephoides** Wlk. St. Lawrence Co, Ap (US, NYS). Aspen.

<sup>65</sup> *Phalaena* (*Geometra*) *extenaria* L., credited to NY, has never been recognized.

## SUBFAMILY OENOCHROMINAE

## ALSOPHILA Hübner

- 3767 **A. pometaria** Harr. FALL CANCKER WORM. Records for the imago are: Rochester, *Angle*; E. Aurora (*Wild*); Castile; Ithaca; Mt. Vernon; **SI**; **LI**: Bellport. Larvae seem common anywhere in the State. A former pest in Brooklyn, it has almost disappeared since the introduction of the English sparrow about 1880 (Eng). Nov-Dec; Ap. General feeder on trees, often injurious to apple and elm.

## SUBFAMILY HEMITHEINAE

## RACHEOSPILA Guenée

- 3775 **R. rubrolinearia** Pck. Ithaca; **LI** (Hulst). May; Jl. Birch.  
3773 **R. rubromarginaria** Pck. Lancaster; **LI**: Central Pk., May 17, *Kch* (Doll).

## NEMORIA Hübner

## (Aplodes Guenée)

- 3781 **N. bistriaria** Hbn. New Windsor; Bronx Pk.; **LI**: Yaphank (Eng). If *bifilata* Wlk. is a distinct species, the NY records should probably be credited to it. Black walnut.  
3783 **N. mimosaria** Gn. Peru; Saranac L.; Cranberry L., *Htly*; Buffalo; Vandalia; Crosby; Ithaca; Danby; McLean; Big Ind. Val.; Trenton Falls; Schoharie; Albany; **SI**; **LI**: Brooklyn; Wyandanch, Central Pk., *Kch* (Doll); Pinelawn, Yaphank (Ds). End of May - Jl.  
3784 **N. rubrifrontaria** Pck. Buffalo, May (*Wild*); West Farms; **SI**; **LI**: Brooklyn; Maspeth; Central Pk., *Kch*; Yaphank (Eng). May.

## SYNCHLORA Guenée

- 3800 **S. aerata** Fab. General and common. Je-Sep. General on low plants, especially the flowers and fruits.  
3801 **S. denticularia** Wlk. Bronxville. Rudbeckia.  
3802 **S. rubrifrontaria** Pck. Buffalo (*Wild*).

## DICHORDA Prout

## (Anaplodes)

- 3810 **D. iridaria remotaria** Hulst. Saranac Inn; Ithaca; Catskills; Katonah; **SI**; **LI**: Brooklyn; Orient, *Lath.* Jl-Aug. Sumac (Dimmock).

## CHLORISSA Stephens

## (Nemoria Hübner)

- 3813 **C. pistaciaria** Gn. Ithaca; Karner; Poughkeepsie; Hastings; West Farms; **SI** (Ds); **LI**: Brooklyn; Amagansett; Yaphank. Late Je.  
3815 **C. subcroceata** Wlk. Clayton; Ithaca; **SI**; **LI**: Brooklyn; Pinelawn; Yaphank. Late Je-Jl. Oak.  
3815.1 **C. dyari** Hulst (*auranticolorata* Strk.). **LI**: Bellport, May-Je.

## MESOTHEA Warren

*(Eucrostis Hübner)*

- 3816 **M. incertata** Wlk. Clayton; McLean; Big Ind. Val.; Karner; Albany.

## CHLOROCHLAMYS Hulst

- 3818 **C. chloroleucaria** Gn. Peru; Newport; St. Ile; Rochester; Honeoye Falls; Buffalo; Otto; Castile; Potter Swamp; Ithaca; McLean; Catskills; Hebron; Schenectady; Albany; Rhinebeck; Katonah; West Farms; **SI** (Ds); **LI**: Brooklyn; Forest Pk., Coram, *Kch* (Fbs); Wading R. Late May-Sep. General on low plants.

## SUBFAMILY STERRHINAE

*(Acidalinae)*

## EUACIDALIA Packard

*(Eois Hübner)*

- 3835 **E. ossularia** Hbn. Buffalo, E. Aurora, Aug (*Wild*); **LI**: Amagansett, Yaphank, Forest Pk., **JI**; Central Pk., Southold, Sep (Ds); Gardiners I., Je (Ds).

## SYNELYS Hulst

*(Acidalia Treitschke not Hübner)*

- 3857 **S. ennucleata** Gn. (*restrictaria* Wlk.). Common everywhere in the State; also the vars. *relevata* Swett and *adornata* Prout. Je-Aug. Wild cherry.

## CINGLIS Guenée

*(Acidalia)*

- 3856 **C. quadrilineata** Pck. (*similaria* auct., in part). Peru; N. Twin Br., Mt. Marcy; Newcomb; Otto(?); McLean; Trenton Falls; **LI**: Amagansett (Eng). Je-Jl.

- 3856 **C. junctaria** Wlk. (*persimilis* Hulst, *similaria* auct.). E. Aurora, *Wild* (Fbs); Potter Swamp; McLean. These species have been universally confused; at least one of them occurs at Fentons, Newport, Big Ind. Val., and Liberty. Je-Jl.

- 3901 **C. inductata** Gn. (*Acidalia, Leptomeris*). General and common. Je-Sep.

- 3903 **C. australis** Hulst. **SI** (Ds); **LI**: Yaphank; Wading R., May (Ds).

- 3853 **C. purata** Gn. Potter Swamp; West Farms; **LI**: Wading R., Je (Ds). Je-Aug.

- 3876 **C. roseotincta** Hulst. **SI** (AM). A stray from the Tropics.

## PTYCHOPODA Curtis

*(Eois Hübner)*

- 3885 **P. bonifata** Hulst (*ptelecaria* Rly., *delicata* Hulst). Albany. A herbarium pest, apparently not established.



- 3888 *P. demissaria* Hbn. (*ferrugata* Pck.). Ithaca; Chappaqua; **LI**: Coram, *Kch* (Fbs); Pinelawn, Aug (Ds). Je-Aug. Var. *russata* Hulst was described from NY.
- 3902 *P. productata* Pck. **LI**: Yaphank (Pears).

## HAEMATOPIS Hübner

- 3912 *H. grataria* Fab. General. Je-Sep. Chickweed, etc.

## TIMANDRA Duponchel

(*Erastria* Hübner, *Calothysanis* Hübner)

- 3913 *T. amaturaria* Wlk. Ithaca; Albany; **SI**; **LI**: Brooklyn; Jamaica; Lynbrook; Astoria; Maspeth (Ds). Je-Aug.

## PLEUROPRUCHA Möschler

(*Deptalia* Hulst)

- 3914 *P. insulsaria* Gn. Buffalo; Potter Swamp; Ithaca; Big Ind. Val.; Schenectady; Albany; West Farms; **SI**; general on **LI**. Jl-Oct. Celastrus, Solidago flowers.

## COSYMBIA Hübner

- 3917 *C. myrtaria* Gn. Plattsburg; Ithaca, May, *Babiy* (Fbs); Poughkeepsie; West Farms; **LI**: Bellmore; Yaphank; Central Pk. (*Kch*). May-Sep. Oak.
- 3918 *C. lumenaria* Hbn. Fentons; Buffalo; Crosby; Ithaca; Big Ind. Val.; Karner; Albany; West Farms; **SI**; general on **LI**. May-early Aug. Sweet fern, Vaccinium, Psoralea.

## SUBFAMILY LARENTIINAE

## STAMNODES Guenée

- 3920 *S. gibbocostata* Wlk. Buffalo and E. Aurora (*Wild*); Cascade L.; Onteora Mt. Rare. Aug-Sep.

## TRICHODEZIA Warren

- 3942 *T. albovittata* Gn. Adirondacks to Buffalo and Gardiners I. (**LI**). May-Je; Aug.
- 3942a *T. albovittata* var. *propriaria* Wlk. N. Twin Br., Mt. Marcy, Jl 6, 1918 (Fbs).

## ACASIS Duponchel

(*Cysteopteryx* Hulst)

- 3950 *A. viridata* Pck. Fourth L., Fulton Chain; Big Ind. Val. Ap-Jl.

## NYCTOBIA Hulst

- 3951 *N. limitata* Wlk. Plattsburg; E. Aurora, Lancaster (*Wild*); Ithaca; Karner; Albany; E. Jewett (Ds); Big Ind. Val.; Ramapo. Also reported from Saranac L.; W. Seneca; Buffalo; Bronx Pk. Ap-May.
- 3952 *N. anguilineata* Grt. Saranac L.; Karner; Big Ind. Val.; Suffern; **SI**; **LI**: Hempstead Plains. Ap-May.

## CLADARA Hulst

- 3955 **C. atroliturata** Wlk. Plattsburg; Brockport; Ithaca; Ilion; Karner; E. Jewett (Ds); Big Ind. Val.; Rio (NYS); **LI**: Jamaica. Ap-May, female to Je.

## LOBOPHORA Curtis

(*Philopsia* Hulst)

- 3956 **L. nivergerata** Wlk. Black Br.; Essex Co; Adirondack Lodge; E. Aurora (*Wild*); Ithaca; McLean; Big Ind. Val.; Karner; **LI**. May-Jl.

## HETEROPHLEPS Herrich-Schaeffer

(*Nannia* Hulst)

- 3959 **H. refusata** Wlk. Black Br.; Lancaster; Potter Swamp; Ithaca (Pck); Big Ind. Val.; Little Falls. Je-Jl.  
3961 **H. triguttaria** H-S. Common everywhere. Je-Aug. Maple.

## DYSPTERIS Hübner

- 3962 **D. abortivaria** H-S. BAD-WING. Peru; New Russia; Lancaster; Gowanda and Irving (*Wild*); Ithaca; Trenton Falls; Rhinebeck; Poughkeepsie; Ft. Montgomery, Nyack (Ds); Florida; **LI**: Syosset; Wading R. (Ds); Orient, *Lath.* May-Aug. Grape.

## RACHELA Hulst

- 3964 **R. bruceata** Hulst. BRUCE'S CANKER-WORM. Mt. Marcy; E. Aurora; Geneva; Brockport; Kendall; Niagara Falls; Buffalo; Allegany Co; Castile, *Brad*; Ithaca; Big Ind. Val.; Ballston (NYS); Andes; **SI** (Ds); **LI**: Brooklyn; Woodhaven. Oct-Nov. Apple.

## TRIPHOSA Stephens

- 3968 **T. indubitata** Grt. (*affirmaria* Wlk. not Gn., *dubitata* auct.). Fentons; Brockport; Lancaster; Buffalo. May; Sep.

## CALOCALPE Hübner

(*Hydria* Hübner)

- 3971 **C. undulata** L. Peru; N. Elba; Newcomb; Adirondack Lodge; Fentons; Rochester, *Angle*; Brockport; E. Aurora; Buffalo; Ithaca; McLean; Utica; Schenectady; Poughkeepsie; West Farms; **SI**; **LI**: Sands Pt. (Bs); Orient (Ds). Je-Aug. Wild cherry, social in a web.

## LYGRIS Hübner

(*Eustroma*)

- 3977 **L. diversilineata** Hbn. General. Late Je-Sep. Grape and ampelopsis.  
3977.1 **L. gracilineata** Gn. Usually confused with *L. diversilineata*. General. Available records are: Peru; Otto; Ithaca; **SI**. Jl-Aug. Ampelopsis.

- 3979 *L. testata* L. Essex Co; Fentons; Protection, *Dnd*; Ithaca; McLean; Gloversville (Alex); Big Ind. Val.; Sharon Sps.; Poughkeepsie. Late Aug-Sep. Birch, willow, poplar, and bean.
- 3978 *L. propulsata* Wlk. (*populata* auct.). Essex Co; Saranac L.; Fentons; Wells; Ithaca; Stony Clove, Greene Co.; Big Ind. Val.; Sharon Sps. Je.
- 3981 *L. destinata lugubrata* Mösch. Mt. Whiteface (Fbs); Mt. Marcy (Pck). Aug.
- 3983 *L. explanata* Wlk. Lewis Co; L. Placid; Minnewaska.  
*L. explanata* var. *cunigerata* Wlk. Mt. Whiteface; Old Forge; L. Placid; Fentons; Ithaca; Sharon; Albany. Aug.
- 3985 *L. (Neolexia) xyliina* Hulst. "NY" (type). Presumably from the Adirondacks.

## DIACTINIA Warren

- 3986 *D. atrocolorata* Grt. **LI**: Brooklyn. May; Jl-Aug.
- 3987 *D. silaceata albolineata* Pck. Peru; Fentons; Ithaca; Onteora Mt.; Sharon. May-Je. *Epilobium*, *Impatiens*.

## THERA Stephens

- 3989 *T. contracta* Pck. Old Forge.

## DYSSTROMA Hübner

- 3992 *D. truncata* Hfn. The records listed here doubtless include some which belong to *citrata* (*immanata*), which has only recently been recognized in the East and can be certainly separated only by structure. Mt. Marcy; Fentons; Lancaster; Buffalo; McLean; DeBruce; Big Ind. Val.; Trenton Falls; Sharon. Late Aug-Sep.
- 3993 *D. citrata* L. (*immanata* Haw.). Wilmington; Mt. Whiteface; also reported from Keene Val., and known from N.H. to the Pacific. Aug.
- 3992b *D. brunneata* Pck. Big Ind. Val., Jl. A distinct species.
- 3995 *D. walkerata* Pears. Catskills, Jl. Presumably a light form of *truncata*.
- 3998 *D. hersiliata* Gn. McLean (Fbs); Plattsburg; Essex Co; Fentons; E. Aurora. (*Wild*); McLean; Big Ind. Val.; Onteora Mt.; Trenton Falls; Sharon; Schenectady; Albany. Je-Jl.

## HYDRIOMENA Hübner

This genus has been revised so recently that I have been unable to verify the NY records. Only the following can be treated as certain.

- 4015 *H. frigidata* Wlk. "NY", May (B&McD).
- 4016 *H. transfigurata* Swett. McLean Bogs, May (male).
- 4014a *H. perfracta* Swett. Catskills, May (type).
- 4014 *H. pluviala* Gn. Peru; Ithaca; McLean; Catskills. Je-Jl.
- 4017 *H. renunciata* Wlk. Peru; E. Aurora (*Wild*); McLean (Fbs); **LI**: Central Pk., *Kch* (Fbs). Late Je-Jl. This is the American representative of *autumnalis* (*coerulata*). A member of this group occurs at Saranac Inn.
- 4024 *H. ruberata* Freyer. McLean (Fbs); Ithaca; Big Ind. Val. (not verified, but undoubtedly correct). May.

## PERIZOMA Hübner

- 4094 *P. taeniata basaliata* Wlk. Mt. Marcy; Fentons; Big Ind. Val. Locally common.

## XANTHORHOË Hübner

- 4037 *X. lacustrata* Gn. (*intermediata* Pck.). Black Br.; Peru; Lewis Co; Buffalo; Castile, Je, *Brad* (Fbs); Potter Swamp; Ithaca; McLean; De-  
 bruce; Big Ind. Val.; Sharon; Albany; Pearl R.; Bronx Pk.; NYC;  
 SI: LI: Woodhaven; Orient, *Lath.* May-Aug. Impatiens.
- 4038 *X. designata* Hbn. Common generally. Late May; late JI; late Aug. Herbs.  
 — *X. designata* form *gynandrata* Pears. Ithaca; McLean; Catskills (types).  
 Probably general with the type.
- 4039 *X. ferrugata* Cl. Adirondacks; E. Aurora; Castile, Je, *Brad* (Fbs); Rock  
 City; LI. End of May-early Sep. Glecoma.
- 4041 *X. munitata labradorensis* Pck. N. Elba; Uphill Br., Mt. Marcy, 3000-  
 4000 ft.
- 4043 *X. incursata* Hbn. L. Tear, Mt. Marcy, JI 12-13, 1918 (Fbs).
- 4046 *X. montanata* D. & S. Buffalo (EPV).
- 4050 *X. iduata* Gn. (*fluctuata*). Mt. Marcy, Fentons (Hill); Ithaca; Catskills;  
 Huguenot. End of Je-Sep.
- 4053 *X. abrasaria congregata* Wlk. Old Forge; Speculator; Mt. Marcy; Mt.  
 Whiteface trail; Ithaca, *Wehrle.* JI.

## ORTHONAMA Hübner

(*Percnoptilota* Hulst)

- 4054 *O. obstipata* Fab. (*fluviata* Hbn.). Rather common all over the State.  
 May-early Nov. Polygonum, etc.

## ENTEPHRIA Hübner

- 4060 *E. aurata* Pck. (*caesiata* auct.), Mt. Marcy; Fentons; Big Ind. Val. JI.

## PHILEREME Hübner

- 4061 *P. multivagata* Hulst. Onteora Mt., *How.*

## SPARGANIA Guenée

(*Coenocalpe*)

- 4068 *S. magnoliata* Gn. Mt. Marcy; Fentons; E. Aurora (*Wild*); Rock City;  
 Allegany; Castile, *Brad*; Ithaca; McLean; Big. Ind. Val.; Stony Clove,  
 Greene Co. Late May-JI 4; Aug 23.

## OPORINIA Hübner

(*Epirrita* Hübner)

- 4069 *O. autumnata henshawi* Swett (*dilutata* auct.). Monroe Co; Big Ind. Val.  
 Oct. Tsuga, etc.

## EUPHYIA Hübner

- 4072 *E. intermediata* Gn. (*lacustrata* Pck.). Peru; Mt. Marcy; Adirondack Lodge; Newcomb; Fentons; Moravia; Castile; Crosby; Geneva; Rochester; Buffalo; Ithaca; Big Ind. Val.; Schenectady; Albany; Brewsters; West Farms; **SI**; **LI**: Brooklyn. Je-Sep.
- 4075 *E. immediata* Grt. "NY". A lost species, perhaps the same as *Xanthorhoe munitata* Hbn.
- 4074 *E. centrostrigaria* Woll. (*latirupta* Wlk.). Mt. Marcy; Newport; N. Fair Haven; Buffalo; E. Aurora; Otto; Potter Swamp; Ithaca; Catskills; Rhinebeck; New Windsor; **SI**; **LI**: Yaphank. May-Aug; Oct.
- 4076 *E. multiferata* Wlk. Oneida; Trenton Falls; Buffalo; E. Aurora; Castile, Brad; Ithaca; McLean; Big Ind. Val.; Onteora Mt.; New Windsor; Brewster; **SI**; **LI**. Late Ap-Je.
- 4077 *E. luctuata* D. & S. var. *obductata* Mösch. (*lugubrata*; *transversata* of European works). Plattsburg, late May.

## CAMPTOGRAMMA Stephens

- 4085 *C. stellata* Gn. (*sitellata*). Ithaca, Aug-Sep (CU); **LI**: Glendale, Oct 7, Kch (Doll).

## EULYPE Hübner

(*Rheumaptera* Hübner)

- 4088 *E. hastata gothicata* Gn. General, including **LI**: Rockaway, Yaphank (Eng). Commonest in Adirondacks. Je-Jl; also May on **SI**. Birch, willow, and blueberry.
- 4092 *E. alternata* Mull. (*sociata* Borkh., *unangulata* Pck., *Epirrhoë*). Peru; Saranac Inn; Old Forge; N. Elba; Newcomb; Waddington; Vandalia; Oak Orchard Swamp; Castile, Brad; Potter Swamp; Ithaca; McLean; Catskills. Je-Aug.

## MESOLEUCA Hübner

- 4086 *M. ruficiliata* Gn. Common, wherever it has been looked for, northward to Adirondack Lodge, Bish. Je; Aug.

EAROPHILA Gumpenberg<sup>66</sup>

- 4109 *E. vasiliata* Gn. Plattsburg; Essex Co; Fentons; Brockport; Lancaster; Ithaca; Catskills; Ilion; Schoharie; Rhinebeck; Mt. Vernon; NYC; **SI**. Ap 30-May.
- E. vasiliata* var. *niveifasciata* Hulst. Ithaca, Ap 19, 1915 (Fbs).

## VENUSIA Curtis

- 4114 *V. cambrica* Curt. Mt. Marcy; Adirondack Lodge, Bish; Indian Pass; Fentons; Big Ind. Val.; Stony Clove, Greene Co; Catskill; Utica. Je-Jl. Mountain ash.
- 4116 *V. comptaria* Wlk. (*perlineata* Pck., *salienta* Pears.). Lancaster; E. Aurora, Salamanca (*Wild*); Ithaca; Big Ind. Val.; Schoharie; Albany; Pearl R. Ap-early May.

<sup>66</sup> Packard reports *Zenophleps lignicolorata* Pck. from NY, doubtless an error.



## HYDRELIA Hübner

*(Euchoeca Hübner)*

- 4119 **H. inornata** Hulst (*exhumata* Pears.). L. Tear, Mt. Marcy; Saranac Inn; N. Elba; Indian Pass; Fourth L., Fulton Chain; Big Moose; Newcomb; Fentons; Otto; Rock City; Ithaca; McLean; Big Ind. Val.; Stony Clove, Greene Co.; Onteora Mt.; Sharon; Utica; Trenton Falls; Little Falls; Schenectady; **SI**, May-Je (Ds); **LI**: Jamaica, *Kch* (Fbs); Coram (Eng). Je-Jl.
- 4118 **H. lucata** Gn. Lancaster; Ithaca; McLean; **SI**. May-Je.
- 4120 **H. albifera** Wlk. Peru; Newcomb; Buffalo; E. Aurora; Oak Orchard Swamp; Ithaca; McLean; Trenton Falls; Big Ind. Val.; Albany; West Farms; **SI**; **LI**: Brooklyn. Je-Jl; Aug-Sep.

## EUDULE Hübner

- 4122 **E. mendica** Wlk. Common everywhere, to the summit of Mt. Marcy. Je-Jl. Violet.
- 4123 **E. meridiana** Sloss. **SI**, Je (Ds).

TEPHROCLYSTIS Hübner <sup>67</sup>*(Eupithecia Curtis)*

- 4144 **T. affinata** Pears. Big Ind. Val. (type).
- 4208 **T. albicapitata** Pck. Ithaca, Jl; Big Ind. Val. (*Pears*).
- 4210 **T. borealis** Hulst. Big Ind. Val. (*Pears*); Onteora Mt., *How*.
- 4153 **T. catskillata** Pears. Ithaca, McLean (Fbs); Big Ind. Val. (type). Je-Jl.
- 4168 **T. coagulata** Gn. (*fumosa* Hulst). Catskills (Pears, Tayl).
- 4176 **T. cretacea** Pck. L. Tear, Mt. Marcy, Jl; summit of Mt. Marcy, Jl; Castile, Je, *Brad* (Fbs); Ithaca, Je.
- 4250 **T. dolorosata** Pears. Big Ind. Val. (*Pears*).
- 4159 **T. erpata** Pears. Big Ind. Val. (*Pears*).
- 4145 **T. filmata** Pears. Ithaca (CU); Big Ind. Val.; Bronx Pk., NYC; **LI**. Ap.
- 4141 **T. frostiata** Swett (*conformata* Pears.). New Windsor (Swett); Big Ind. Val.; Bronx Pk.; **LI**: Central Pk. and Woodhaven (Pears).
- 4169 **T. geminata** Pck. (*packardata* Tayl., *meritata* Pears.). Potter Swamp and Ithaca (Fbs); Big Ind. Val. (*Pears*); **LI**: Cypress Hills, Aug 28, *Kch* (Doll). Jl-Aug.
- 4261 **T. indistincta** Tayl. Catskills (Tayl).
- 4192 **T. interruptofasciata** Pck. Niagara Falls, Buffalo, E. Aurora (Wild); Ithaca (Fbs); Slaterville; Onteora Mt., *How*. Je-Oct. Juniper.
- 4187 **T. latipennis** Hulst. Ithaca; Big Ind. Val. Je.
- 4140 **T. miserulata** Grt. Ilion; Catskills; NYC; **LI**. Var. *nebulosa* Hulst is from: Big Ind. Val.; NYC; **LI**: Brooklyn (CU); Central Pk.; Bellport, Yaphank (BM). Jl.
- 4209 **T. mutata** Pears. Big Ind. Val. (*Pears*).

<sup>67</sup> In this genus I have made few determinations; most of the records below are from specimens determined by Pearsall, Taylor, Swett, and Grossbeck (Fbs).

- 4156 *T. palpata* Pck. Peru (CU); Ithaca (CU); Big Ind. Val. (*Pears*). Early Je.  
 4265 *T. promulgata* Pears. Big Ind. Val. (*Pears*).  
 4228 *T. ravocostaliata* Pck. Ithaca, May 9, 1915 (Fbs).  
 4191 *T. youngata* Tayl. Keene Val.; Catskills.  
 4173 *T. strattonata* Pck. (*anticaria* auct.). McLean; Big Ind. Val., Je.

## HORISME Hübner

(*Eucymatoge* Hübner)

- 4280 *H. intestinata* Gn. Newcomb; Fentons; New Russia; Lancaster; Blossom; Ithaca; McLean; Onteora Mt., *How*; Rhinebeck; New Windsor; West Farms; **SI**; **LI**: Wading R. (Ds); Orient, *Lath.* May-early Je; Aug.

## SUBFAMILY GEOMETRINAE

(*Ennominae*)

## ISTURGIA Hübner

(*Epelis* Hulst, *Fidonia*)

- 4287 *I. truncataria* Wlk. L. Tear, Mt. Marcy; E. Concord; McLean, common on the bogs; Karner. May-Jl. Bearberry.

## EMATURGA Lederer

- 4288 *E. amitaria* Gn. (*faxonii* Minot). Black Br.; Catskills; Ft. Edward; Karner; Albany. Je. Pine(?).

## EUFIDONIA Packard

- 4289 *E. notataria* Wlk. Black Br.; Peru; Saranac L.; Buffalo; E. Aurora; Rock City; Dayton; Vandalia; Portage; Ithaca; McLean; Gloversville (Alex); Big Ind. Val.; Onteora Mt., *How*; Trenton Falls; Bethlehem; Karner; Albany; Ramapo (Ds). May-Jl. White pine.

## ORTHOFIDONIA Packard

- 4290 *O. exornata* Wlk. (*tinctaria* Wlk., *Cymatophora deceptata* Hulst). Saranac L.; Fourth L., Fulton Chain; Aurora Twp. (Wild); Rock City; Ithaca; McLean; Big Ind. Val.; Trenton Falls; Karner. The female form *flavivenata* Hulst occurs at E. New York, **LI**. May-Je.

## BAPTA Stephens

(*Corycia*, *Orthofidonia*)

- 4292 *B. semiclarata* Wlk. N. Elba; Peru; Black Br.; Saranac Inn; Fourth L., Fulton Chain; Lewis Co; Rock City; Coy Glen and Six Mile Cr., Ithaca; McLean; Catskills; Karner. Late May-Je.  
 4293 *B. vestaliata* Gn. Very common everywhere. May-Jl; Aug. Apple and wild cherry.  
 4295 *B. glomeraria* Grt. Ithaca; McLean; Big Ind. Val.; **LI**: Coram (Eng). Ap-early May.

## HELIOMATA Grote

- 4296 *H. infulata* Grt. **LI**: Brooklyn (Pck); Wading R. Je.  
 4298 *H. cycladata* Grt. Ithaca; Poughkeepsie; Bronxville; **SI**; **LI**: Brooklyn; Cold Sp. Harb.; Yaphank; West Hills, Wading R. (Ds); Orient, *Lath.* May-Je. Locust.

## MELLILLA Grote

- 4300 *M. xanthometata* Wlk. (*chamaechrysaria* Grt.). Buffalo (Grt). Gleditsia.

## PHYSOSTEGANIA Warren

- 4303 *P. pustularia* Gn. Common and general. Jl-Sep. Maple.

## GUENERIA Packard

- 4304 *G. basiararia* Wlk. General, but somewhat local and often mistaken for one of the *Deilineas*. Definite records are: Peru; Vandalia; Ithaca; McLean; Trenton Falls; Big Ind. Val.; Ft. Edward; West Farms; Hunt's Pt., *Kch* (Fbs); **SI**; **LI**: Woodhaven; Forest Pk. and Cold Sp., *Kch* (Fbs); Orient, *Lath.* Je-Jl.

## DEILINEA Hübner

(*Cabera* Treitschke)

- 4307 *D. variolaria* Gn. Common and general, but easily confused. I have verified the following records: Peru; Black Br.; Mt. Marcy; Adirondack Lodge, *Bish*; Wilmington; Fentons; Rochester, *Angle*; Vandalia; Portage; Potter Swamp; Ithaca; McLean; Binghamton; Big Ind. Val.; Schoharie; Karner; Albany; **SI**. Je-Aug, stragglers to Sep. Willow.  
 4309 *D. erythremaria* Scop. General. With the habits of the preceding species, but not always on the same stations. Trustworthy records are: Black Br.; Peru; Wilmington; Batavia; Portage; Egleston's Glen; Ithaca; McLean; Trenton Falls; Big Ind. Val.; Newport; Karner. End of May-early Sep. Willow.

## DREPANULATRIX Gumpenberg

- 4325 *D. liberaria* Wlk. Fentons; Buffalo; Seneca L.; Ithaca; Binghamton; Cedar Hill; Karner; Albany; Hartsdale; Ramapo, Oct (Ds); **SI**. Var. *helena* Hulst was described from Brooklyn. Aug-Sep. Possibly *Ceanothus*.

## PHILOBIA Duponchel

- 4332 *P. ulsterata* Pears. (*notata* auct.). Peru; Uphill Br. and N. Twin Br., Mt. Marcy; North Cr.; Shelving Rock, L. George; Utica; Karner; Big Ind. Val. (types); **LI**. Jl.  
 4331 *P. aemulataria* Wlk. (*enotata* auct.). Rock City; Potter Swamp; Ithaca; McLean; Catskills. "*P. enotata*" is reported also from: Fentons; Oneida; Buffalo; Albany; Poughkeepsie; Brewster; West Farms; **SI**; **LI**: Brooklyn. Late Jl-Aug. Lettuce (?).

## MACARIA Curtis

*(Sciagraphia* Hulst, *Semiothisa*)

- 4345 *M. granitata* Gn. Forms of this species in the broad sense are general. The commonest is *disjuncta* Wlk. I have seen the typical form from Ithaca and the Catskills, and what seems to be var. *unimodaria* Morr. from Vandalia. May-Aug. Spruce(?).
- 4344 *M. multilineata* Pck. **LI**: Amagansett (BM).
- 4367 *M. ocellinata* Gn. Peru; Rochester, *Angle*; Ithaca; Rhinebeck; Florida; general south of New Windsor. Late May-early Sep. Locust.
- 4385 *M. continuata* Wlk. Keene, *Wild*. Celtis.
- 4387 *M. orillata* Wlk. **LI**(?).
- 4373 *M. mellistrigata* Grt. Plattsburg; Wilmington; Fentons; Waddington; Lancaster; McLean; Catskills; Karner; Albany; Poughkeepsie. Je-Aug.
- 4372a *M. trifasciata* Pck. Peru, Je 11, 1916 (Fbs).
- 4380 *M. infimata* Gn. E. Aurora, Irving (*Wild*); Ithaca; NYC; **SI**; **LI**: Brooklyn; Glendale, *Kch* (Fbs.). The type of the synonym *caesiaria* Hulst was from NY. May-early Je, Jl, Aug.
- 4389 *M. eremiata* Gn. Karner, May, Aug.
- 4336 *M. aequiferaria* Wlk. **SI**.
- 4338 *M. minorata* Pck. Newcomb; Ithaca; Poughkeepsie; **LI**: Forest Pk.; Brooklyn. Je-early Sep.
- 4341 *M. praeatomata* Haw. Ithaca, Jl 4, 1891 (CU); Karner; West Pt., Je (Ds); West Farms; **SI**, May (Ds). Jl-Aug.
- 4339 *M. bisignata* Wlk. Plattsburg; Peru; Keene Val.; Oneida; Lewiston; Buffalo; Lancaster; Crosby; Ithaca; Ringwood; Catskills; Albany; West Farms; **LI**: Woodhaven; Yaphank. Je-Aug. Pine, etc.

## HESPERUMIA Packard

- 4398 *H. sulphurararia* Pck. Peru, *Mix&Everett*; Cranberry L., *Htly*; Catskills and West Pt. (Pears). Jl-Aug; late autumn.

## ITAME Hübner

*(Cymatophora* Hübner, *Diastichtis* Hübner)

- 4430 *I. virginalis* Hulst. Peru; Wilmington; Catskills; Ithaca; Karner; Albany; **SI**. Je; Aug.
- 4399 *I. ribearia* Fitch. GOOSEBERRY SPAN-WORM. Peru; Ausable Forks (NYS); Fentons; Ogdensburg (NYS); Buffalo; Otto; Ithaca; McLean; Newport; Trenton Falls; Paris Hill; Schenectady; Saratoga Sps.; Salem; New Paltz. May, Jl. Currant and gooseberry, sometimes injurious.
- 4407 *I. brunneata* Thun. Fentons; Newcomb. Jl.
- 4406 *I. inceptaria* Wlk. Plattsburg; Peru; Rock City; Ithaca; **LI**: Patchogue, *Wls* (Fbs). Specimens from Big Ind. Val. are practically the same as the Mississippi Val. *I. evagaria*. End of Je-Jl.
- 4408 *I. subcessaria* Wlk. Sharon Sps.; Onteora Mt., *How*; also a Pearsall specimen perhaps from Big. Ind. Val. Jl.
- 4409 *I. coortaria enigmata* B. & McD. E. Aurora (*Wild*); Lancaster; Ithaca; DeRuyter. Je-Jl.

- 4411 *I. anataria* Swett. Adirondack Lodge, *Bish*.  
 — *I. wauaria* L. Lancaster; **SI**, Je (Ds); **LI**: Brooklyn, E. New York (Wasmuth).  
 4413 *I. exauspicata* Wlk. (*bicolorata* auct.). Ithaca; McLean; Sharon; Big Ind. Val.; **LI**. Jl.

## EUMACARIA Packard

- 4425 *E. latiferrugata* Wlk. (*pustularia* auct., *brunnearia* Pck.). Fentons; Buffalo; Karner; End of May–Je. Apple, plum, and wild cherry.

## DYSMIGIA Warren

(*Sympherta* Hulst)

- 4453 *D. loricaria julia* Hulst. Mt. Whiteface trail; Big Ind. Val. Jl.

## HOMOCHLODÈS Hulst

- 4454 *H. fritillaria* Gn. (*disconventa* Wlk.). Saranac Inn; Fentons; Adirondack Lodge; E. Aurora; Lancaster; Castile, Je, *Brad* (Fbs); Rock City; Ithaca; McLean; Liberty; Big Ind. Val.; Stony Clove, Greene Co; Oneida; Trenton Falls; Karner; Albany; Katonah; **SI**. Je–Jl.

## APAECASIA Hulst

(*Lithina*)

- 4455 *A. deterrenta* Gn. Black Br.; Buffalo; Vandalia; Castile, Je, *Brad* (Fbs); McLean; Ithaca; Ft. Edward; Karner; Albany; West Farms; **SI**; **LI**: Yaphank, May (Ds); Merrick. Je–Jl.  
 4456 *A. atropunctata* Pck. (*deductaria* auct.). Ithaca, May 31, 1918; Poughkeepsie.  
 4457 *A. subaequaria* Wlk. (*defluata* Wlk.). Common everywhere in damp places. Je–early Aug.  
 4458 *A. extremaria* Wlk. **SI**; **LI**: Amagansett; Woodhaven. Ap–Je. A salt-marsh species.

## CATOPYRRHA Hübner

- 4460 *C. coloraria* Fab. Ithaca; Cedar Hill; Karner; Albany; **LI**: Brooklyn and E. New York, Ap–May. The summer form *dissimilaria* Hbn. is of course general with the species; it is reported definitely from: Trenton Falls; Esopus; Karner; Albany; Pocantico Hills; Katonah (Ds); Bronxville; **LI**. Je–Jl. Clover.

## CARIPETA Walker

- 4465 *C. divisata* Wlk. Jay; Mt. Marcy; Indian Pass; Big Moose; Fentons; Lancaster; Aurora; Ithaca; McLean; Big Ind. Val.; Schoharie; Albany. Late Je–Aug.  
*C. divisata* var. *nigraria* Fbs. Ithaca (types).  
 4467 *C. angustiorata* Wlk. (*crimmosa* Swett). Plattsburg; Peru; Ithaca; Poughkeepsie; **LI**: Central Pk., May 6, *Kch* (Doll); Yaphank (*Bell and Eng*). Late Jl–Aug. Pine (*Kch*).  
 4469 *C. angustiorata* var. *aretaria* Wlk. (*angustiorata* Pck., in part). Peru; Ithaca; Poughkeepsie; **LI**: Central Park (transition), *Kch*. Je–Jl, Sep.



## NEPYTIA Hulst

- 4486 *N. canosaria* Wlk. (*semiclusaria* auct.). Keene Val.; L. Placid; E. Aurora; Otto; Ithaca; Big Ind. Val.; Catskills. A distinct species. Sep-Oct.  
 4488 *N. semiclusaria* Wlk. Albany, *Pears*; Cedar Hill? (Meske); **LI**: Bellmore; Delhaven; Amagansett; Yaphank. Oct.

## PARAPHIA Guenée

- 4490 *P. unipuncta* Haw. (*subatomaria* Wood, *deplanaria* Gn., *guttata* Hulst). The numerous varieties of this species are not very sharply distinguished and I have not tried to record them separately. The species is general. Je-Jl. Birch and willow, also variously reported on oak, elm, hickory, fir, and pine.

## SPODOLEPIS Hulst

- 4493 *S. subtriataria* Hulst (*Jubarella danbyi* Hulst). Big Ind. Val.

## LYTROSIS Hulst

- 4496 *L. unitaria* H.-S. Rochester, *Angle*; Ithaca; Pelham Manor; L. Mahopac (Ds). May-Jl.

## TORNOS Morrison

- 4506 *T. scolopacinaris* Gn. (*abjectarius* Hulst). **LI**: Flatbush. Aster.

## CLEORA Curtis

- 4567 *C. sublunaria* Gn. (*atrolinaria* Hulst, *arcataria* Broad.). Pelham Manor; **SI**; **LI**: E. New York; Woodhaven. Ap.

## PSEUDOBOARMIA McDunnough

- 4560 *P. umbrosarium* Hbn. Mt. Marcy (Hill); Lancaster (EPV); Albany (Lint); West Farms (Pck); **SI**; **LI**: Yaphank; Wading R. May-Je (Ds). Confusion with *porcelaria* makes the records slightly doubtful.

## PROTOBOARMIA McDunnough

- 4560 *P. porcelaria* Gn. (*indicataria* Wlk.). Newcomb; Orchard Pk. (*Wild*); Ithaca; Catskills; Trenton Falls; Schoharie; **SI**. Je-Aug. *Pinus virginiana* (*P. inops*).

## GLENA Hulst

- 4602 *G. cognataria* Hbn. (*muricolor* Hulst). **LI**: Amagansett; Yaphank (Ds). End of May-Aug.  
 4566 *G. cribrataria* Gn. Cedar Hill. Spruce.

## STENOPORPIA McDunnough

- 4572 *S. polygrammaria* Pck. Ithaca; Rhinebeck. The confusion of this species with *porcelaria* in Dyar's list was probably a pure accident. May-Je.

## VITRINELLA McDunnough

- 4570 **V. pampinaria** Gn. Common throughout the State. May-Sep. A general feeder.

## ANACAMPTODES McDunnough

- 4575 **A. vellivolata** Hulst. Portage; **LI**: Wading R. Je. Pine.  
 4585 **A. larvaria** Gn. Mt. Marcy; Buffalo; Ithaca; Big Ind. Val.; Albany; West Farms; **SI**; **LI**: West Hills (Ds). Rare, but general. May-Sep.  
 4574 **A. humaria** Gn. Big Moose; Karner; Poughkeepsie; Rhinebeck; NYC; **SI**, Ap-May (Ds); **LI**: Jamaica, *Kch* (Doll); Hempstead Plain. Late Je-Jl. A general feeder.  
 4584 **A. ephyraria** Wlk. (*takenaria* Pears.). Cranberry L., *Hilly* (Fbs); Ithaca; McLean; Catskills; **SI**. Jl-Aug. Wild cherry.

## MELANOLOPHIA Hulst

- 4599 **M. canadaria** Gn. Common everywhere. Castile, Je, *Brad* (Fbs); May-early Jl; Aug 29(1). Spruce(?).

## ÆTHALOPTERA Hulst

- 4601 **Æ. anticaria** Wlk. (*intextata* auct.). General. Definite records are: N. Elba; Rock City; McLean; Ithaca; Big Ind. Val.; Albany; NYC; **SI**; **LI**: Woodhaven; Central Pk., *Kch* (Doll). Ap-Jl.

## ECTROPIS Hübner

- 4604 **E. crepuscularia** D. & S. Common throughout the State. I believe that our records apply rather to *bistortata* than to the true *crepuscularia* of Europe. May-Oct, mostly Jl. Poplar, alder, etc.  
**E. crepuscularia** ab. *abraxaria* Wlk. Ithaca, Je 9.

## EPIMECIS Hübner

- 4607 **E. hortaria** F. (*virginaria* auct., not *virginiaria* Cr.). Ithaca, probably a stray; Bronxville; **SI**; **LI**: Aqueduct; Forest Pk. May, Jl. Tulip tree and sassafras.  
**E. hortaria** var. *carbonaria* Haim. **SI**, May-Aug (Ds); **LI**: Forest Pk., Jl 4, 1923 (*Kch*).

## LYCIA Hübner

- 4608 **L. ursaria** Wlk. Plattsburg; Lancaster; Buffalo; E. Aurora; Ithaca; Albany; NYC; **LI**: Woodlawn. Ap-May. Poplar, plum, etc.  
 4609 **L. cognataria** Gn. (*Amphidasys*). PEPPER-AND-SALT CURRANT MOTH. Peru; Wilmington (larva); Fentons; Geneva; Rochester, *Angle*; Lancaster; E. Aurora; Buffalo; Ithaca; Binghamton (NYS); Catskills; Poughkeepsie; Albany; New Windsor; **SI**; **LI**: Brooklyn; Glendale, black var. *mesle*; Maspeth (Ols). May-Aug. General on trees and shrubs.

## NACOPHORA Hulst

- 4615 **N. quernaria** S. & A. (male *phigaliaria* and *cupidaria*). Keene, E. Aurora, Allegany Pk. (*Wild*); Ithaca; Olivera, West Pt. (Ds); **SI**; **LI**: Brooklyn; Forest Pk., *Kch*; Glendale (black aberration), *Kch* (Fbs); West Hills, Cold Sp. (Ds). Je (Sep). Oak.

## PHIGALIA Duponchel

- 4620 **P. olivacearia** Morr. Ithaca; Binghamton; Albany; Bronxville; Bronx Pk., *Kch* (Doll); **SI**; **LI**: Brooklyn. Rarer and even earlier than the other species. End of Mar–Ap.
- 4622 **P. titea** Cr. HALF-WINGED GEOMETER. Peru; Rochester; Lancaster; Buffalo; Pike; Ithaca; Binghamton; Big Ind. Val.; Onteora Mt.; Albany; Rio (NYS); Ramapo (Ds); NYC; **SI**; **LI**: Jamaica. Sometimes very common in early spring. Ap–early May. A general feeder.

## PALEACRITA Riley

- 4624 **P. vernata** Peck. SPRING CANKER-WORM. Old Forge; E. Aurora; Oakland; Castile; Ithaca; Cooperstown; Albany; Westchester Co; **SI**; **LI**: Brooklyn; Orient, *Lath*. The imago is regularly confused with that of the fall canker-worm, *pometaria*, especially in the female, and the larva is much like those of various geometers; therefore I can find only these few trustworthy records. The species is probably general but local in the State, and is often rare for several years together. Ap (rarely late fall). A general feeder.

## ERANNIS Hübner

- 4628 **E. tiliaria** Harr. LIME-TREE WINTER MOTH. General and locally common in late fall. Oct–Nov. Linden, elm, apple, etc.

## CINGILIA Walker

(*Zerene*)

- 4620 **C. catenaria** Dru. CHAIN-DOTTED GEOMETER. General and locally common. Adirondack records are: Fentons; Peru. Sep–Oct. A general feeder, especially on shrubs.
- 4631 **C. rubiferaria** Swett. Peru, Sep 15–16, 1917, *Mix&Everett* (CU).

## ANAGOGA Hübner

(*Numeria*)

- 4641 **A. pulveraria** L. Black Br.; Mt. Marcy; Crosby; Ithaca; DeBruce; Big Ind. Val.; Onteora Mt., *How*; Trenton Falls; Karner; Albany; **SI**; **LI**: Brooklyn; Yaphank. May–early Jl.

## SICYA Guenée

- 4644 **S. macularia** Harr. Peru; Mt. Whiteface; Fentons; Rochester, *Angle*; Lancaster; Lewiston, N. Evans, E. Aurora, and Allegany Pk., *Wild*; Castile, *Brad*; McLean (Fbs); Ithaca; DeRuyter; Big Ind. Val.; Sharon; Albany; Poughkeepsie; Katonah; Florida. Je–Jl. Spiraea.

THERINA Hübner <sup>68</sup>

(Ellopia B. &amp; McD.)

- 4653 **T. endropiaria** G. & R. Cranberry L.; Peru; Saranac L.; Rochester; Portage; Ithaca; Big Ind. Val.; West Pt., Ft. Montgomery, Nyack (Ds); **SI**; **LI**: Brooklyn; Bellport; Brookhaven; Yaphank. Je-Jl. Oak and chestnut.
- 4651 **T. pellucidaria** G. & R. **LI**: Brookhaven (Dyar); Bellport; Yaphank; Central Pk., *Doll*; Wading R., May (Ds). Yellow pine.
- 4652 **T. athasiaria** Wlk. Saranac L.; Buffalo; **LI**: Brookhaven; Central Pk.; Cold Sp., Je 12, *Kch* (Doll); Yaphank (Ds); Orient Pt., Aug 30, *Lath.* Ap-Je. Oak.
- 4654 **T. fiscellaria** Gn. Cranberry L.; Keene Val.; Cascade L.; Fentons; E. Aurora, Buffalo (*Wild*); Ithaca; McLean; Big Ind. Val.; Trenton Falls; **LI**: Yaphank. Sep-Oct. Yellow birch (Htly).
- T. fiscellaria** var. **turbataria** B. & McD. (*fervidaria* auct.). Buffalo; Ithaca; Trenton Falls; Cedar Hill; Albany; **SI**; **LI**: Amagansett, Yaphank, Sep-Oct (Ds).
- 4655 **T. fervidaria** Hbn. **LI**: Farmingdale, Je 16, 1918 (CU).

## CAMPAEA Lamarck

(Metrocampa Latreille)

- 4659 **C. praegrandaria** Gn. General and not rare. Je-early Jl, Aug-Sep; two broods, the second dwarfed. White birch and willow.

## EUGONOBAPTA Warren

- 4661 **E. nivosaria** Gn. General, and sometimes locally the commonest geometer. End of May-Aug.

## ENNOMOS Treitschke

(Eugonia Hübner)

- 4664 **E. subsignarius** Hbn. SNOW-WHITE LINDEN MOTH. Rochester; Buffalo; Ithaca; McLean (Fbs); Seager; Big Ind. Val.; Utica; Albany; Rhinebeck; Poughkeepsie; Katonah; **SI**; **LI**: Pinelawn, Yaphank (Ds). Jl-Aug. Trees and shrubs. Sometimes occurs in injurious numbers.
- 4665 **E. magnarius** Gn. (*alniaria*). General and sometimes in injurious numbers on maple. Aug-Oct. Maple, etc.

## XANTHOTYPE Warren

- 4666 **X. sospeta** Dru. (*crocataria* Fab.). Common and general. Recently verified records are: Adirondack Lodge, *Bish*; Peru, *Mix and Everett*; Newcomb; Ithaca; McLean. Numerous records for southern NY should be verified, as possibly belonging to *X. urticaria*.
- 4666.1 **X. urticaria** Sw. (*crocataria*, in part). Recently separated from the preceding species and commoner than that. Definite records are: Potter Swamp; Ithaca; McLean.

<sup>68</sup> The species of this genus, except *endropiaria*, are difficult and sometimes impossible to determine, and I am not sure that all the records here given are correct.

## PLAGODIS Hübner

- 4667 *P. serinaria* H.-S. Fourth L., Fulton Chain; Buffalo; E. Aurora (*Wild*); Rock City; Allegany Co; Ithaca; McLean; Binghamton; Catskills; Ilion; **SI**; **LI**: Forest Pk., *Kch* (Doll). May-early Jl.
- 4669 *P. keutzingaria* Pck. (*altruaria* Pears.). Plattsburg; Fourth L., Fulton Chain; Crosby; Ithaca; Albany; **LI**: Yaphank (aberrant). Also reported from Fentons, but not verified. May-Je.
- 4468 *P. nigrescens* Hulst (*kuetzingi* Grt., *keutzingaria* Pck. in part). Ithaca; Onteora Mt., *How*; Poughkeepsie. May 31-Je 3.
- 4671 *P. purpuraria* Pears. **LI**: Merrick. (Hardly distinct from *keutzingaria*).
- 4673 *P. schuykillensis* Grossb. **SI**, *Ds* (Grossb).
- 4674 *P. alcoolaria* Gn. Saranac L.; Cranberry L., *Htly*; Fourth L., Fulton Chain; Buffalo; E. Aurora; Portage; Ithaca; Catskills; **SI**; **LI**: Farmingdale; Yaphank. Late May-Jl. Chestnut.
- 4676 *P. phlogosaria* Gn. Fentons (Lint); Thousand Isls. (*Kch*); Rochester, *Angle*; Lancaster (EPV); Ithaca; McLean; Big Ind. Val.; Albany (Pck); Poughkeepsie; **SI**; **LI**: Jamaica; Richmond Hill (*Kch*). Jl-Aug.
- 4672 *P. emargataria* Gn. **SI**; **LI**: Valley Stream, May, *Kch* (Doll).

## HYPERITIS Guenée

- 4678 *H. amicaria* H.-S. Everywhere in the State. I have not tried to record the forms, but *nyssaria* Gn. occurs at Minnewaska and Fourth L., Fulton Chain, and a dark form of *nepiasaria* Wlk. at Rock City. May-Jl. Reported on Hypericum and beech.

## NEMATOCAMPA Guenée

(*Ania* Hulst not Stephens)

- 4680 *N. filamentaria* Gn. Northern records are: Mt. Marcy; Old Forge; Fentons. The range of the species extends southward to the Tropics. Je-Sep. A general feeder.

## METARRANTHIS Warren

(*Gonodontis*, *Epirranthis*)

- 4685 *M. hypochraria* H.-S. Common and general. The normal form on the Appalachian Highlands is much paler than the type. Late May-early Jl. Apple and persimmon.
- 4685a *M. hypochraria* var. *lateritiaria* Gn. Trenton Falls (Wlk).
- 4685b *M. homuraria* Grt. Sullivan Co; **LI**: Bellport, *Nic* (Fbs). A very distinct form or species.
- 4686 *M. apiciaria* Pck. Karner; Albany. Je-Jl.
- 4687 *M. warneri* Harv. **LI**: Central Pk., Je 5, 1921, *Kch* (Doll).
- 4689 *M. duaria* Gn. Black Br.; Peru; Slaterville; Ithaca.
- 4689.1 *M. duaria* var. *hamaria* Gn. Black Br.; Newcomb; Ithaca; McLean.



4689.2 *M. duaria* var. *angularia* B. & McD. Ithaca.

All these forms or elementary species (4689, 4689.1, and 4689.2) are May-Je. Also a good many records from all over the State recorded merely as "*duaria*."

4688 *M. pilosaria* Pck. Considered a good species by B. & McD. Occurs in NY (Grossb).

4692 *M. obfirmaria* Hbn. Plattsburg; Peru; Black Br.; McLean; Catskills; Karner; Albany; **SI**; **LI**: Central Pk., *Kch*; Promised Land; Yaphank; Orient, *Lath*. Ap-Je. *Vaccinium*, *Cassandra*, etc.

### EUCHLAENA Hübner

#### (*Endropia*)

4699 *E. serrata* Dru. Peru to Ithaca and Auburn, and southward to **LI**; not rare northward; uncommon on **SI** and **LI** (Ds). Je-early Aug. Maple.

4700 *E. obtusaria* Hbn. Peru; E. Aurora and Allegany Pk. (*Wild*); Ithaca; McLean; Big Ind. Val.; Albany (Pck); Katonah; **SI**. Je-Jl. Rose, etc.

4701 *E. effecta* Wlk. (*effectaria* auct.). Peru; Essex Co; Saranac L.; Fentons; Oneida; Lancaster; Allegany Pk. (*Wild*); Big Ind. Val.; Stony Clove, Greene Co; Albany. Var. *muzaria* Wlk., the southern form of this species, is credited to NY by Walker, probably from the vicinity of NYC. Jl; Sep.

4702 *E. johnsonaria* Fitch (*bilinearia* Pck.). Peru; Essex Co; Fentons; Adirondack Lodge, *Bish*; Allegany Pk. (*Wild*); Lancaster; Ithaca; Binghamton (NYS); Big Ind. Val.; Sharon; Hebron (Wls); Croton-on-Hudson (Ds); **SI**; **LI**: Bellport, *Nic* (Ds). Var. *minoraria* Hulst was described from NY. Je-Jl; Aug-Sep. Oak.

4704 *E. amoenaria* Gn. Binghamton; **SI**; **LI**: Cypress Hills, Aug 7, *Kch* (Doll); Wading R. (atypical).

4705 *E. vinulentaria* G. & R. Pearl R.; Binghamton; **LI**: Central Pk. and Coram, *Kch* (Doll); Riverhead; Yaphank. Je, Jl.

4706 *E. astylusaria* Wlk. **LI**: Yaphank. Various trees.

4707 *E. marginata* Minot. Fentons; Lancaster; Rock City; Ithaca; Schenectady; Karner; New Windsor; **LI**: Smithtown; Yaphank. May-Aug.

4710 *E. tigrinaria* Gn. (*pectinaria* auct.). Newcomb; Ithaca; Big Ind. Val.; Ramapo Mts. Jl. Oak.

### SELENIA Hübner <sup>69</sup>

#### (*Eutrapela* Hübner)

4711 *S. alciphearia* Wlk. Big Ind. Val. The type form in May; var. *ornata* B. & McD. in Jl.

4712 *S. kentaria* Grt. Brockport; Buffalo; Ithaca; Big Ind. Val.; Brewsters; **LI**: Brooklyn; Queens (*Bell and Eng*). The large typical form of this generally passes as *alciphearia*; the small summer form usually called *kentaria* is *glaucata* B. & McD. May; autumn. Maple, beech, basswood, and birch.

<sup>69</sup> In this genus there are two broods, the second one much dwarfed.

## METANEMA Guenée

- 4721 *M. inatomaria* Gn. Peru; Saranac L.; Adirondack Lodge, *Bish*; Buffalo, E. Aurora (*Wild*); Newcomb; Ithaca; Big Ind. Val.; Onteora Mt., *How*; Sharon; Albany; Rhinebeck; **SI**; **LI**: Brooklyn. Je-Aug. Poplar(?).
- 4722 *M. determinata* Wlk. Peru; Essex Co; North Cr.; E. Aurora; Ithaca; Oneonta; Poughkeepsie. Late May-early JI; late Aug.
- 4726 *M. quercivoraria* Gn. (*textrinaria* G. & R.). Fourth L., Fulton Chain; Buffalo; Ithaca; Overlook Mt., Catskills (G&R); **SI** (Ds); **LI**: Wading R., Yaphank, Riverhead (Ds). May-Sep, two broods. Oak, elm, and poplar.

## PRIOCYCLA Guenée

- 4728 *P. armataria* H.-S. Mt. Marcy; Buffalo; E. Aurora; Ithaca; McLean; Big Ind. Val.; Onteora Mt., *How*; Ilion; Rhinebeck; New Windsor; Ramapo, *Fulda* (Ds); **SI**; **LI**: Cypress Hills, *Kch*; Orient, *Lath*. Je-JI. Currant, birch, and maple.
- 4729 *P. decoloraria* Hulst (*jucundaria* Strk.). Peru; Ithaca; **SI**. Late Je-early JI. Raspberry(?).

## PERO Herrich-Schaeffer

(*Azclina* Guenée, in part)

- 4744 *P. honestarius* Wlk. (*ancetaria* auct.). Peru; Rochester; E. Aurora; Ithaca; common from the Mohawk Val. southward and westward. Ap-Je; Aug-Sep. Wild cherry.
- 4750 *P. morrisonarius* H. Edw. "Ithaca" (one old specimen at CU); Big Ind. Val. (Grossb); Pearl R. (Pears). Je-JI.
- 4752 *P. marmoratus* Grossb. Rock City; Ithaca; Ilion; New Windsor (Grossb); **SI**; **LI**: E. New York (Ds); Orient, *Lath* (Fbs). Je-JI.

## SYSSAURA Hübner

(*Drepanodes*)

- 4755 *S. puber* G. & R. (*infensata* auct.). Lewis Co; Albany; Catskills; Rhinebeck; West Farms; **SI**; **LI**: Brooklyn; Amagansett; Yaphank; Orient, *Lath*. Je; Aug-Sep. Juniper.

## APICIA Guenée

(*Caberodes* Guenée)

- 4758 *A. confusaria* Hbn. (*majoraria* Gn.). Common throughout the State; the dark form *metrocamparia* Gn. almost as common as the type. May, JI-early Aug. General on low plants.
- 4759 *A. irraria* B. & McD. (*majoraria* auct.). Ithaca; Catskills; **SI**. Je-Aug.

## TETRACIS Guenée

- 4762 *T. crocallata* Gn. Peru; Fentons; Rochester, *Angle*; Ithaca; McLean; Little Falls; Gloversville; Albany; Oswego; Lancaster; Buffalo and southward. Late May-JI. Chestnut and sumac.

## SABULODES Guenée

- 4763 *S. arcasaria* Wlk. (*sulphurata* Pck.). Poughkeepsie; Ft. Montgomery (Ds); New Windsor; West Farms; **SI**; **LI**: Brooklyn; Jamaica; Woodside; Woodhaven; Forest Pk., *Kch*; Wading R. (Ds). The summer form *furciferata* Pck. is reported from: Ithaca, Je 9, 1922; **LI**: Brooklyn; E. New York; Newtown. Ap–May, Je–Aug. Sumac and maple.
- 4769 *S. lorata* Grt. (*Tetracis*). Black Br.; Essex Co; Fentons; Castile, Je, *Brad* (Fbs); Clayton; Geneva; Rochester; Buffalo; E. Aurora; Portage; Ithaca; McLean; Big Ind. Val.; Albany; Rhinebeck; Ft. Montgomery (Ds); West Farms; **SI**; **LI**: Wading R., Yaphank (Ds). General and not rare. Late May–Jl; early Sep. Sweet fern (and other shrubs?).
- 4777 *S. transversata* Dru. General and common. Jl–Oct (two broods). Oak, maple, etc.

## ABBOTTANA Hulst

- 4780 *A. clemataria* S. & A. General and not rare. May–Jl. A general feeder, especially on maple.

## SPHACELODES Guenée

- 4786 *S. vulneraria* Hbn. Buffalo; Ithaca, *Benjamin*; **LI**: Brooklyn. A stray from the Tropics.

## FAMILY SPHINGIDAE

## HERSE Oken

- 662 *H. cingulata* Fab. Ithaca (a stray); Kenwood (Albany); **LI**: Brooklyn; Glendale; E. Quogue. Convolvulaceae.

## PHLEGETHONTIUS Hübner

- 665 *P. quinquemaculata* Haw. (*celeus* Hbn.). NORTHERN TOMATO WORM. Plattsburg, Newport (NYS); Orleans, Genesee, Erie, and Chautauqua Counties, generally; Watertown; Castile; Ithaca; Cayuga and Onondaga Counties; E. Worcester; Cherry Valley; Saratoga Sps.; Watervliet; Schenectady; Coeymans; Albany; Poughkeepsie; Ulster Co, general; Woodstock and southward. Je–Jl. Solanaceae.
- 664 *P. sexta* Joh. (*carolina* L.). SOUTHERN TOMATO WORM or TOBACCO WORM. Ransomville (CU Econ); Clinton Corners (CU Econ); Yonkers; Rye (Bird); **SI**; **LI**, general (Wat). Solanaceae.
- 666 *P. rustica* Fab. **SI** and **LI** (Brooklyn) (strays). Bignonia, etc.
- 667 *P. brontes* Dru. "NY" (Westwood) (a stray).

## CHLAENOGRAMMA Smith

- 670 *C. jasminearum* Bdv. Rye (Bird); Bronx Pk., occasional (Wat); West Farms; **SI**; **LI**. Ash.

## DOLBA Walker

- 671 *D. hylaeus* Dru. Albany; Rye (Bird); New Windsor; **LI**: Brooklyn; Bellport, Jl (Nic). Ilex and papaw.

## CERATOMIA Harris

- 674 *C. amyntor* Hbn. (*quadricornis* Harr.). FOUR-HORNED SPHINX. Peru; Rochester; Buffalo; E. Aurora; Ithaca; Oneonta; Stuyvesant Falls; Gloversville; Albany; Poughkeepsie; Rye (Bird); NYC, common (Wat); **SI; LI**. Je-Jl. Elm; white birch (Wat).
- 675 *C. undulosa* Wlk. (*Daremma*). Essex Co; Fentons; Rochester (Angle); Lancaster; Buffalo; Allegany Pk., abundant (Wild); Portage; Crosby; Ithaca; Onteora Mt., *How*; Oneonta; Gloversville (*Alex*); Hebron, *Wls*; Edgewood, Greene Co (Wat); Van Cort. Pk., common (Wat); **SI; LI**: Brooklyn. May-Jl; a straggler Aug 20. Ash and privet.
- 676 *C. catalpae* Bdv. (*Daremma*). CATALPA SPHINX. **LI**: Brooklyn, *Wasmuth*. Catalpa.

## SPHINX Linnaeus

(*Hylloicus*)

- 693 *S. kalmiae* S. & A. L. Placid; Saranac L.; Buffalo; E. Aurora, Allegany Pk. (*Wild*); Lake Forest; Nile; Ithaca; Trenton Falls; Oneonta; Gloversville; Hebron, *Wls*; Albany; Rye; Florida; **SI; LI**: Brooklyn. Jl-Aug. Lilac, ash, and Chionanthus.
- 696 *S. drupiferarum* S. & A. Plattsburg; Saranac L.; Newport; Geneva; Rochester; Buffalo; Westfield (NYS); Allegany Pk. (*Wild*); Ithaca; Oneonta; Ft. Plain; Albany; Rye; Van Cort. Pk., larvae formerly common on *Prunus serotina* (Wat); **SI; LI**. May-Jl. Apple, plum, and cherry.
- 694 *S. gordius* Stoll. Plattsburg; Peru; Big Moose; Saranac L.; Buffalo; Lancaster; Crosby; Oneonta; Albany; Rye; Tappan (Wat); **SI; LI**: Brooklyn; Bellport (Nic); Wading R. (Ds). Je. Apple; Myrica; sweet fern and huckleberry (Eng).
- 695 *S. luscitiosa* Clem. Saranac L.; Ithaca; Albany; Karner; **LI**: Brooklyn. Je. Willow and poplar.
- 687 *S. chersis* Hbn. GREAT ASH SPHINX. Clayton; Peru; Buffalo; Otto; Ithaca; Trenton Falls; W. Winfield; Stuyvesant Falls; Oneonta; Gloversville; Hebron (*Wls*); Nassau; Rye; Van Cort. Pk. and Wash. Hgts., NYC, common (Wat); **SI; LI**: Cold Sp.; Brooklyn. Je-Jl. Ash and lilac.
- 691 *S. canadensis* Bdv. Plattsburg; Adirondacks; Buffalo. Blueberry(?).
- 681 *S. eremitus* Hbn. Buffalo; E. Aurora (*Wild*); Ithaca; Rogers Rock, L. George, *Jones*; Rye; **SI; LI**: Brooklyn. Mints.

## ATREIDES Holland

- 679 *A. plebeja* Fab. Ithaca; **SI; LI**: Brooklyn. Lilac; Bignonia; passion flower; trumpet vine (Eng).

## LAPARA Walker

- 700 *L. coniferarum* S. & A. Ulster Co (Seifert).
- 701 *L. bombycoides* Wlk. PINE TREE SPHINX. Plattsburg; Peru; L. Ontario shore; Ithaca; Sharon Sps.; Oneonta; Albany; **LI**, in the pine barrens (Eng). Var. *harrisii* Clem. is known from Ulster Co. and is probably the form to which many of the other records should be referred. Var. *pinum* Lint., described from Schoharie, has been taken once at Ithaca. Je-Jl. Pine.

## SMERINTHUS Latreille

- 705 *S. jamaicensis geminatus* Say. TWIN-SPOTTED SPHINX. Plattsburg; Peru; Wilmington; Rochester (Angle); Avon; E. Aurora; Allegany Pk.; Ithaca; McLean; Gloversville; Rye; **SI**; **LI**: Brooklyn. Je-Aug. Willow and poplar (Eng).  
The Eliot Coll. has a bred series of typical *jamaicensis*, presumably from NY stock.
- 706 *S. cerisyi* Kby. Plattsburg; Peru; Saranac Inn; Ithaca; Oneonta; Karner. Late May-Je. Willow.
- *S. hybr. interfaunus* Neum. NYC. Bred from a wild male *Paonias astylus* and a captive female *S. ocellatus* from Europe.

## PAONIAS Hübner

- 707 *P. excaecatus* S. & A. BLIND-EYED SPHINX. Plattsburg; Peru; Newcomb; Axton; Mt. Marcy; L. Placid; Ogdensburg; Buffalo; Allegany Pk.; Union Sps. and southward. Je-Aug. Common on oak and wild cherry (*Prunus serotina*) (Wat); birch; apple.
- 708 *P. myops* S. & A. Peru; Fentons; Mt. Marcy; Rochester (Angle); Lewiston, common (Wat & W. P. Comstock); Buffalo; Allegany Pk. (Wild); Ithaca; Oneonta; Gloversville (*Alex*); Albany; Rye; Van Cort. Pk., formerly common (Wat); **SI**; **LI**: Brooklyn. Je-Jl. Wild cherry, etc.
- 709 *P. astylus* Dru. Poughkeepsie; Rye; **LI**: Brooklyn. Jl. Vaccinium.

## CRESSONIA Grote and Robinson

- 710 *C. juglandis* S. & A. WALNUT SPHINX. Essex Co; Mt. Marcy; Wilmurt; Castile, Je, *Brad* (Fbs); Buffalo; E. Aurora, Allegany Pk. (Wild); Lancaster; Rock City; Ithaca; Trenton Falls; Oneonta; Rye; New Windsor; Pine I. (Ds); Van Cort. Pk. (Wat); **SI**; **LI**: Brooklyn; Wading R. (Ds). May 30-Jl. Walnut and hickory.

## PACHYSPHINX Rothschild and Jordan

(*Marumba*)

- 711 *P. modesta* Harr. Plattsburg; Adirondacks; Rochester (Angle); Tonawanda; Buffalo; Lancaster; E. Aurora, Allegany Pk. (Wild); Crosby; Ithaca; Catskills (Ulster Co); Oneonta; Albany; **SI**; **LI**: Brooklyn. Late May-early Jl. Poplar and willow.

## ERINNYIS Hübner

(*Dilophonota* Burmeister)

- 715 *E. ello* L. Buffalo; Catskills; Ithaca. A stray from the Tropics.

## ÆLLOPOS Hübner

- 730 *A. titan* Cr. **LI**: Rockaway (Kunze). A stray from the Tropics.
- 729 *A. tantalus* L. Albany (RM & WGray). A stray from the Tropics.<sup>70</sup>

<sup>70</sup> Cramer's type of *Enyo jopix* was reported as from this State, almost certainly in error.



## HEMARIS Dalman

- 735 *H. diffinis* Bdv. BUMBLE-BEE MOTH. General. May-Jl, two broods. Transitional to var. *aethra* Strk. in cooler parts of the State, and nearly typical *aethra* from Axton. Je.
- 733 *H. gracilis* G. & R. Trenton Falls; Karner; **SI**; **LI**: Smithtown. Early May-Je. Indian currant (Eng).
- 732 *H. thysbe* Fab. (*cimbiciformis* Steph.). Clayton; Rochester; Batavia; Buffalo; Castile, *Brad*; Ithaca; McLean; Trenton Falls; Ilion; Stuyvesant Falls; Gloversville; Hebron, *Wls*; Poughkeepsie; Crugers; Bronxville; **SI**; **LI**: Smithtown; Brooklyn. Var. *ruficaudis* Kby. (*uniformis* G. & R.) is reported from: Fentons; Newcomb; Buffalo; Ithaca; McLean; Trenton Falls; Utica; Schoharie; Albany; Karner; Poughkeepsie; **LI**: Sands Pt. May-Aug, two broods. Viburnum.

## PHOLUS Hübner

- 740 *P. vitis* L. **SI**; **LI**: Brooklyn, bred by Tepper (Doll). Grape and ampelopsis.
- 741 *P. fasciatus* Sulz. **LI**: Brooklyn, *Wasmuth* (Eng). Accidental.
- 737 *P. satellitia pandorus* Hbn. PANDORUS SPHINX. Clayton; Newport, Cranberry Cr. (NYS); Lancaster; Buffalo; Ithaca; Mayfield (NYS); Hebron, *Wls*; Glenville (NYS); Albany and vic.; Rye; **SI**; **LI**: Brooklyn; Orient, *Lath* (Angle). Aug. Grape and ampelopsis.
- 738 *P. achemon* Dru. Lancaster; Buffalo; Ithaca; Newport; Albany (NYS); Poughkeepsie; Rye; **SI**; **LI**: Brooklyn; Orient, *Lath* (NYS). Je-Jl. Grape and ampelopsis.

## AMPELOPHAGA Bremer and Gray

- 735 *A. choerilis* Cr. AZALEA SPHINX. Plattsburg; Mt. Marcy; Clayton; Lake Forest; Buffalo; Otto; Ithaca; Oneonta; Sharon; Albany; Poughkeepsie; Rye; NYC; **SI**; **LI**: Brooklyn; Pine Haven. Je-Jl. Azalea; Viburnum (Eng).
- 744 *A. myron* Cr. (*pholus* auct.). HOG CATERPILLAR OF THE VINE. Alder Co.; Port Kent; Oswego; Syracuse; Buffalo; E. Aurora; Ithaca; Ft. Plain; Knox; Patria; Athens; Rome; Crown Pt.; Stuyvesant Falls; W. Troy; and southward. Je-Aug, two broods. Grape and ampelopsis.
- 743 *A. versicolor* Harr. Rochester; Buffalo; Lake Forest; Ithaca; Lestershire; Kenwood, Albany; **LI**: Brooklyn. Je-Jl; Aug. Cephalanthus and Decodon (*Nesea*).

## SPHECODINA Blanchard

- 746 *S. abbottii* Swains. ABBOT'S SPHINX. General on **LI** and northward to Hebron; Gloversville; Mt. Morris; Howe's Cave, Schoharie; Saranac L. May. Grape and ampelopsis.

## DEIDAMIA Clemens

- 747 *D. incripta* Harr. Batavia; Ithaca; Brockport; Ft. Montgomery (Ds); Rye; **SI**; **LI**: Brooklyn. May. Grape; ampelopsis (Eng).

## AMPHION Hübner

- 749 **A. nessus** Cr. Fentons; S. Bryon; Pike; Buffalo; E. Aurora (*Wild*); Ithaca; Trenton Falls; Oneonta; Ft. Edward; Albany; Cambridge; Athens; Rye; Pine I. (Ds); Bronx Pk. (Wat & W.P.Comstock); **SI; LI:** Brooklyn; Smithtown; Orient, *Lath.* Je-Jl. Ampelopsis; grape and evening primrose (Eng).

## PROSERPINUS Hübner

(*Lepisesia* Grote)

- 753 **P. flavofasciata** Wlk. Harrisville, *Elbridge Sibley* (Quaintance). Epilobium.

## XYLOPHANES Hübner

(*Theretra*)

- 760 **X. tersa** L. Kenwood, Albany; Rye; **SI; LI:** Brooklyn; Jamaica. *Spermacoce*.

## CELERIO Oken

(*Deilephila* Ochseneheimer)

- 761 **C. gallii intermedia** Kby. Plattsburg; Essex Co; Buffalo; E. Aurora; Ithaca; Oneonta; Schenectady; Albany; Poughkeepsie; **LI:** Brooklyn. Epilobium, etc.
- 762 **C. lineata** Fab. WHITE-LINED SPHINX. Common southward. Definite records are; Buffalo; Ithaca; Oneonta; Stuyvesant Falls; Cedar Hill; Albany; Coeymans; Poughkeepsie; **SI; LI:** Brooklyn. A general feeder, preferring purslane and evening primrose.

## FAMILY NOTODONTIDAE

## MELALOPHA Hübner

(*Ichthyura*)

- 3589 **M. apicalis** Wlk. Peru; Albany; Rensselaer. Reported also from Plattsburg and Poughkeepsie, but the species is too near the next following for the records to be quite certain. Je-Jl (a stray in Mar). Poplar.
- 3592 **M. strigosa** Grt. "S.N.Y." Jl (?). Poplar.
- 3591 **M. inclusa** Hbn. Peru; Saranac L.; Buffalo; Ithaca; W. Coxsackie; Schoharie; Rensselaer; Putnam Co; Adams Corners; Mt. Vernon; NYC; **SI.** Ap-Je. Poplar.
- 3593 **M. albosigma** Fitch. Plattsburg; Peru; Essex Co; Fentons; Rochester; Batavia; Lancaster; Buffalo; Ithaca; Oteora Mt., *How*; Gloversville (*Alex*); Sharon; Albany; Poughkeepsie; **SI; LI:** Jamaica. The var. *specifica* Dyar is general with the type, and is commoner at Ithaca at least. Je-Aug. Poplar.
- 3594 **M. brucei** H. Edw. Plattsburg (Pck). Willow.

DATANA Walker <sup>71</sup>

- 3595 *D. ministra* Dru. YELLOW-NECKED APPLE WORM. Waddington; Massena; Potsdam; Chepachet; Medina; Chautauqua Co, scarce (Hartzell); Rock City and vic.; Bath; Windsor; Ithaca; Summitville; Sherburne; Stittville; Shushan; Albany; Clinton Corners, etc.; Rye; Middletown; Florida; Croton L.; Katonah; **SI; LI**. Je-Aug. Apparently the commonest Datana in the State. General on trees, sometimes injurious to apples in late summer.
- 3596 *D. angusii* G. & R. Plattsburg; Peru; Buffalo (*Wild*); Lancaster; Ithaca; Sharon; McLean; Karner; Selkirk; Poughkeepsie; Rye; Katonah; West Farms; **SI; LI**: Brooklyn. Je-Jl; stragglers in Aug. Walnut and hickory (?).
- 3597 *D. drexelii* H. Edw. Peru; Plattsburg; Ithaca; Rhinebeck; Poughkeepsie; **SI**. Jl. Hamamelis; huckleberry (Eng).
- 3598 *D. major* G. & R. Newburgh; Poughkeepsie; Ft. Montgomery (Ds); Rye; Florida; **SI; LI**: Brooklyn. Jl. Andromeda.
- 3599 *D. palmii* Beut. Ithaca; Ulster Co (larvae); Poughkeepsie. Jl. Will eat *Vaccinium*.
- 3600 *D. floridana* Graef. "NY" (N&D). NYC and vic. (Eliot). I am suspicious of these records. Andromeda.
- 3603 *D. perspicua* G. & R. Ithaca; Gloversville (*Alex*); Rhinebeck; Poughkeepsie; Newburgh; Katonah; Rye; West Farms; **SI; LI**: Brooklyn. Jl. Sumac.
- 3604 *D. intergerrima* G. & R. WALNUT DATANA. Plattsburg; Waddington; Rochester; Holley; Eden Center; Sinclairville; Westfield; Ithaca (larvae); Canastota; Moravia; Romulus; Windsor; Utica; Rhinebeck; Poughkeepsie; West Pt. (Ds); Rye; **SI; LI**: Brooklyn; Mineola; Wading R. Jl-Aug. Walnut, usually black walnut; hickory (Eng).
- 3607 *D. contracta* Wlk. Buffalo; Ithaca; Newburgh; **SI; LI**: Brooklyn. Jl-Aug. Oak; also reported from chestnut, hickory, and witch-hazel.

## HYPERAESCHRA Butler

- 3608 *H. stragula* Grt. Plattsburg; Peru; Essex Co; Saranac Inn; Buffalo; E. Aurora; Ithaca; Catskills; Sharon; Hebron, *Wis*; Albany; Rhinebeck; Poughkeepsie; Rye; **SI; LI**. All summer, two broods (?). Poplar and willow.
- 3609 *H. georgica* H-S. Plattsburg; Ithaca; Poughkeepsie. May-Jl. Oak.

## ODONTOSIA Hübner

- 3611 *O. elegans* Strk. Saranac L.; Ithaca (larva).

## NOTODONTA Ochseneheimer

- 3613 *N. basitriens* Wlk. Peru, *Mix&Everett*; N. Elba; Keene Val.; Brockport; Buffalo; Lewiston (*Wild*); Onteora Mt., *How*; Ithaca; McLean; Trenton Falls; Sharon. Late May; Aug.
- 3614 *N. simplaria* Graef. Plattsburg; Peru, Aug 2, *Mix&Everett*.

<sup>71</sup> In this genus determinations based on the imago are usually a little doubtful, and therefore I have omitted records based on atypical imagoes (Fbs).

## PHEOSIA Hübner

- 3615 *P. dimidiata* H-S. Plattsburg; Wilmington (larva); Saranac L.; Lancaster; Buffalo; Rock City; Ithaca; North Branch; Ontario Mt., *How*; Utica; Albany; Poughkeepsie; Rye; **LI**: Brooklyn. Jl-Aug. Poplar; willow (Eng).

## LOPHODONTA Packard

- 3617 *L. ferruginea* Pck. Plattsburg; Peru; Keene Val.; Mt. Marcy; Ithaca (rare); Poughkeepsie; Catskills; Rye; **SI**; **LI**: Brooklyn. May; Jl-Aug. Birch.
- 3618 *L. angulosa* S. & A. Plattsburg; Brockport; Ithaca; Ulster Co; Dutchess Co; **SI**; **LI**: Yaphank. May-Aug. Oak.

## NADATA Walker

- 3602 *N. gibbosa* S. & A. Common throughout the State. Je-Jl (stragglers to Sep). Oak.

## NERICE Walker

- 3621 *N. bidentata* Wlk. Plattsburg; Peru; North Cr.; Geneva; Lancaster; E. Aurora; Ithaca; McLean; Trenton Falls; Sharon; Rhinebeck; Poughkeepsie; Rye; **LI**: Newtown. May-Aug. Elm.

## SYMMERISTA Hübner

- 3622 *S. albifrons* S. & A. RED-HUMPED MAPLE WORM. Plattsburg; Peru; Lancaster; E. Aurora; Castile, Je, *Brad* (Fbs); Gowanda; Leon; Ithaca; McLean; Ontario Mt., *How*; Trenton Falls; Poughkeepsie; Rye; **SI**; **LI**: Brooklyn. Je-Jl. Maple, oak, and rarely, beech.

## DASYLOPHIA Packard

- 3625 *D. anguina* S. & A. Plattsburg; Big Ind. Val.; Albany; Poughkeepsie; New Windsor; Katonah; **LI**: Brooklyn (Doli). Je-Jl. Locust and other legumes.
- 3626 *D. thyatiroides* Wlk. Plattsburg; Ithaca; Sharon. Reported from hickory, but probably in error.

## HETEROCAMPA Doubleday

- 3634.1 *H. obliqua* Pck. (*trouvetotii* Pck.). L. Placid; Ithaca; Big Ind. Val.; West Farms; **LI**: Newtown. Jl. Oak.
- 3640 *H. umbrata* Wlk. (*pulverea* G. & R.). Ithaca; Poughkeepsie; **SI**; **LI**: Brooklyn. Jl-Aug. Oak.
- 3641 *H. manteo* DbI. Plattsburg; Peru; Saranac L.; Castile, Je, *Brad* (Fbs); Buffalo; Ithaca; Ontario Mt., *How*; Trenton Falls; Utica; **SI**; general on **LI**. Je-Aug. Oak and other trees.
- 3642 *H. biundata* Wlk. Cincinnatus, *Dnd*; Ithaca; Big Ind. Val.; Trenton Falls (type); **LI**: Woodhaven. Credibly reported also from Plattsburg and Poughkeepsie. Maple and other trees.

- 3643 **H. guttivitta** Wlk. MAPLE PROMINENT. Plattsburg; Peru; Saranac L.; Jamestown; Buffalo; E. Aurora (*Wild*); Ithaca; McLean; Big Ind. Val.; Johnstown; Berlin; Stephentown; Ramapo Mts.; **SI; LI**: Greenport, Aug (Ds). Reported also from Poughkeepsie, where it undoubtedly occurs. Rubbed or faded specimens are quite indistinguishable from *biundata*. May-Jl, Sep. Maple and other trees, sometimes injurious.
- 3644 **H. bilineata** Pck. (*Seirotonta*). Plattsburg; Oswego; Buffalo (*Wild*); Lancaster; Castile; Ithaca; Rhinebeck; Poughkeepsie; Katonah; Irvington; **SI; LI**: Brooklyn. Je-Aug. Elm.

## MISOGADA Walker

- 3645 **M. unicolor** Pck. Brockport; Buffalo; Ithaca; Catskills; Poughkeepsie; Rye; **SI; LI**: Brooklyn; Glencove; Woodhaven. Je. Sycamore.

## IANASSA Walker

- 3649 **I. lignicolor** Walker. Plattsburg; Peru; Rochester, *Angle*; Buffalo; Aurora; Rock City (*Wild*); Ithaca; Big Ind. Val.; Onteora Mt., *How*; Sharon; Poughkeepsie; Rye; **SI; LI**: Brooklyn. Je-Aug. Oak, beech, and birch.

## SCHIZURA Doubleday

- 3654 **S. ipomoeae** Dbl. Plattsburg; Wilmington (larva); Saranac L.; E. Aurora; Geneva; Ithaca; Big Ind. Val.; W. Haverstraw; Poughkeepsie; Tarrytown; **SI; LI**: Woodhaven. The preceding records belong, either certainly or probably, to the typical form. Var. *telifer* Grt. is known from Poughkeepsie, Nyack (Ds), and NYC. Var. *cinereofrons* Pck. has been seen from Buffalo, Ithaca, Rhinebeck, and Bronxville. Je-Aug. Oak, maple, etc., not *Ipomoea*.
- 3655 **S. concinna** S. & A. RED-HUMPED APPLE WORM. A pest all over the State. The imago is relatively seldom seen but the larva is unmistakable. Aug. Apple and other trees.
- 3652 **S. semirufescens** Wlk. (*eximia* Grt.). Plattsburg; Peru; Buffalo (*Wild*); E. Aurora; Ithaca; Sharon Sps.; Poughkeepsie; **SI**. Je-early Aug. Maple, apple, and other trees.
- 3657 **S. unicornis** S. & A. UNICORN PROMINENT. Common throughout the State. May-Aug. Various trees.
- 3659 **S. apicalis** G. & R. Peru; Ithaca; Brockport; **SI**: Clove Val. Bayberry (Eng).
- 3656 **S. badia** Pck. Peru; Sharon; Dutchess Co; Florida; **SI; LI**: Brooklyn. Je-Aug. Viburnum.
- 3660 **S. leptinoides** Grt. Plattsburg; Peru; Brockport; Buffalo; E. Aurora, *Wild*, *Dnd*; Ithaca; McLean; Poughkeepsie; New Windsor; **SI; LI** (Doll). Je; Aug. Oak, etc.

## HYPARPAX Hübner

- 3662 **H. aurora** S. & A. Plattsburg; Protection (*Wild*); Ithaca, Je 9, 1918; Karner; New Windsor; Rye; Bronx Pk. (Ds); **SI**; common and general on **LI**. Je. Oak.



## CERURA Schrank

- 3666 *C. scitisscripta multisscripta* Rly. Poughkeepsie; Rye; **SI**; common and general on **LI**. Willow and poplar.  
 3670 *C. occidentalis* Lint. Plattsburg; Peru; Saranac Inn; Rochester; Buffalo; Ithaca; Poughkeepsie; **SI**; **LI**: Brooklyn; Woodhaven. May-Je; Aug. Willow.

## HARPYIA Ochsenheimer

- 3669 *H. borealis* Bdv. Plattsburg; Fentons; Buffalo; Ithaca; Oneonta; Poughkeepsie; Rye; **SI**; common and general on **LI**. Wild cherry.  
 3671 *H. cinerea* Wlk. Plattsburg; Buffalo; Ithaca, Je 12, 1915; Poughkeepsie; Rye; **SI**; **LI**: Brooklyn. Willow and poplar.  
 3673 *H. scolopendrina* Bdv. **LI**: Flushing. Var. *albicoma* has been taken at Waddington.  
 3673a *H. modesta* Hudson. Plattsburg; Peru, Je; Ithaca, Ap (*Benjamin*); Poughkeepsie. This appears to be a distinct species. Willow and poplar.

## FENTONIA Butler

- 3674 *F. marthesia* Cr. Plattsburg; Buffalo; Ithaca; Big Ind. Val.; Sharon; Albany; Poughkeepsie; **SI**; **LI**. Jl-Aug. Oak and maple.

## GLUPHISIA Boisduval

- 3680 *G. septentrionalis* Wlk. Rochester; Buffalo (*Wild*); Ithaca; Big Ind. Val.; Sharon; Albany; **SI**; **LI**: Newtown. Late Mar-Apr, Je-Aug. Poplar.  
 3681 *G. lintneri* Grt. Plattsburg; Ithaca; Karner. Ap-May; Sep-Oct.  
*G. lintneri* Grt. form *avimacula* Hudson. Plattsburg (type); Ithaca; Big Ind. Val.

## ELLIDA Grote

- 3682 *E. caniplaga* Wlk. Plattsburg; Ithaca; Utica; Karner. May 30-Jl.

## FAMILY LIPARIDAE

(*Lymantriidae*)

## NOTOLOPHUS Germar

(*Orgyia*, in part)

- 3701 *N. antiqua nova* Fitch. ANTIQUE TUSSOCK-MOTH. Ogdensburg, Newport, Gouverneur (NYS); Plattsburg; Keene Val.; Wilmington (larva); Fentons; Cranberry L., *Htly*; Rochester (NYS); Holland; Ontario; Ithaca; McLean; Silver Bay; Albany; Coxsackie (NYS). Aug. A general feeder on trees and shrubs.

## HEMEROCAMPA Dyar

(*Orgyia*, in part)

- 3705 *H. leucostigma* S. & A. WHITE-MARKED TUSSOCK-MOTH. Common throughout the State. End of Jl-early Oct. General on trees and shrubs, often injurious.

- 3706 **H. inornata** Beut. **LI:** Bellport, in a swamp (presumably now exterminated).  
 3707 **H. definita** Pck. YELLOW-HEADED TUSsock. Rochester (NYS); Allegany Pk. (*Wild*); Ithaca; McLean; New Windsor. The species is probably rather general, but is easily recognized only in the larva. Sep.

## OLENE Hübner

(*Parorgyia*)

- 3709 **O. achatina** S. & A. Plattsburg; Rhinebeck; Poughkeepsie. These records probably belong to *O. basiflava*.  
 3710 **O. basiflava** Pck. Brockport; Rhinebeck; Poughkeepsie; **LI:** Yaphank (Doll). Late J1—early Aug. Hickory.  
 3712 **O. vagans** B. & McD. Big Ind. Val. (Pears); **LI:** Yaphank (Doll). Oak.  
 3715 **O. atomaria** Wlk. Newburgh (Pck); Greene Co (Seifert). Aug.  
**O. atomaria** var. *parallela* G. & R. Ithaca; Big Ind. Val. (Pears); Rhinebeck. Je—Aug.  
 3716 **O. cinnamomea** G. & R. Poughkeepsie. J1—Aug.  
 3717a **O. interposita** Dyar. Sharon. Aug 1.  
 3718 **O. plagiata** Wlk. Plattsburg. J1—Aug. Pine.  
 3720 **O. pini** Dyar. Albany (Dyar); Catskills (Franck). Pine.

## PORTHETRIA Hübner

- 3722 **P. dispar** L. GYPSY MoTH. Dr. Felt states that infestation has been found at one time or another in the following localities, but that the species is now presumably exterminated: Geneva; Mt. Kisco; Garrison; a strip along the eastern border of the State from near L. George south to Dutchess Co, including the townships of Hampton, Stanford, Washington, Berlin, N. Greenbush, N. Albany, Gallatin, Austerlitz, Canaan, and Pine Plains; Moriah Twp. in Essex Co; **LI:** Prospect Pk., Brooklyn; Patchogue and vic.; Greenport. Aug.

## LIPARIS Ochsenheimer

- **L. monacha** L. BLACK ARCHES, or NUN MoTH. **LI:** Brooklyn (Franck). Apparently never established.

## EUPROCTIS Hübner

- 3723 **E. phaeorrhoea** Don. (*chrysorrhoea* auct.). BROWN-TAIL MoTH. **LI:** Richmond Hill, J1 15, 1910, at light (*Kch*); Hardscrabble; Orient Pt.; Fisher's I., breeding in small numbers in 1914; Shelter I. Now exterminated.

## FAMILY NOCTUIDAE

## SUBFAMILY HYPENINAE

## HYPENA Schrank

- 3579 **H. humuli** Harr. HOP SNOUT-MoTH. General and common. May; Aug; Oct. A general feeder, sometimes injurious to hop.

## PLATHYPENA Grote

- 3578 **P. scabra** Fab. GREEN CLOVER-WORM. General and common, in some seasons injurious to beans. Je-Aug; Sep-Oct; adult hibernates (Bird).

## ANEPHISCHETOS Smith

- 3574 **A. citata** Grt. (*Bomolocha*). Ithaca. Aug-Oct.

## LOMANALTES Grote

- 3576 **L. eductalis** Wlk. Plattsburg; Peru; Fentons; Ithaca; McLean; Schenectady; Karner; Albany; Rhinebeck; Rye. May-Je; Aug-Sep.

## BOMOLOCHA Hübner

- 3560 **B. manalis** Wlk. Elba (*Wild*); Geneva; Potter Swamp; Ithaca; Ulster Co; Poughkeepsie; Rye; **SI**; **LI**: Yaphank (Eng). Je-Aug.
- 3561 **B. baltimoralis** Gn. Throughout the State. Ap-Aug.
- 3562 **B. bijugalis** Wlk. Peru; Saranac L.; Niagara Falls; Lancaster; Ithaca; Big Ind. Val.; Onteora Mt., *How*; Newport; Coeymans; Poughkeepsie; **SI**; **LI** (Eng). Je; Aug-Sep.
- 3531 **B. scutellaris** Grt. Potter Swamp; Big Ind. Val.; Cedar Hill. Je-Aug.
- 3564 **B. abalinealis** Wlk. Peru; Saranac L.; Buffalo; E. Aurora; Ithaca; McLean; Big Ind. Val.; Newport; Oneonta; Sharon; Schenectady; Rhinebeck; Poughkeepsie; New Windsor; **SI**; **LI** (Eng). End of May-Aug; apparently two broods. Elm.
- 3566 **B. madefactalis** Gn. (*caducalis* Wlk.). Peru; E. Onondaga; Lancaster; Buffalo; Ithaca; Schenectady; Onteora Mt., *How*; Big Ind. Val.; Rye; Croton-on-Hudson (Ds); Florida; Katonah. May-Jl.
- 3567 **B. sordidula** Grt. Ithaca; Poughkeepsie; Rye; **SI**. Je. Alder.
- 3569 **B. atomaria** Sm. Peru; Potter Swamp; Ithaca. Je; Aug.
- 3571 **B. toreuta** Grt. Ithaca; Rye. May; Jl-Aug.
- 3565 **B. deceptalis** Wlk. Lancaster; E. Aurora, Niagara Falls (*Wild*); Castile, *Brad*; Ithaca; McLean; Trenton Falls; Big Ind. Val.; Onteora Mt., *How*; Sharon; Schoharie; Rhinebeck; Rye; Ramapo (Ds). May-Aug.
- 3572 **B. edictalis** Wlk. Fentons; Potter Swamp; Ithaca; Little Falls; Big Ind. Val.; Sharon; Schenectady; Albany. Jl-Aug.

## SALIA Hübner

- 3559 **S. interpuncta** Grt. Poughkeepsie; Katonah. Jl.

## DERCETIS Grote

- 3556 **D. vitrea** Grt. Buffalo; Ithaca; West Farms (AM). Jl.

## CAPIS Grote

- 3555 **C. curvata** Grt. Saranac Inn; Buffalo; Castile, *Brad*; McLean; Poughkeepsie; Katonah. Jl-early Aug.

METALECTRA Hübner <sup>72</sup>

(Homopyralis Grote)

- *M. praecisalis* Hbn. **LI**: Lynbrook, Je 16.  
 3478 *M. praecisalis discalis* Grt. Saranac L.; Evans Center; Lancaster; Ithaca; Catskills; Karner; Albany; Rye; **SI**; **LI**: Woodhaven, Je-Jl; Sep.  
 3479 *M. contracta* Wlk. (*tactus* Grt.). Fentons; Newcomb; Clayton; Buffalo; Otto; Ithaca; Catskills; Newport; Schenectady; Florida; Rhinebeck; Rye; NYC; **SI**; **LI**: Lynbrook; Great Neck; Yaphank. Late May-Aug.

## MELANOMMA Grote

- 3474 *M. auricinctaria* Grt. Rhinebeck; **LI**: Brooklyn; Glendale. Jl. Huckleberry and Cephalanthus.

## SPARGALOMA Grote

(Hyamia Walker)

- 3472 *S. sexpunctata* Grt. Plattsburg; Peru; Crosby; Ithaca; Karner; Poughkeepsie; Rye; **SI**. Je-Aug.  
 3473 *S. perditalis* Wlk. Buffalo; Catskills; Rhinebeck; **SI**, Ap, Jl (Ds); **LI**: Brooklyn. Cephalanthus.

## PANGRAPTA Hübner

- 3471 *P. decoralis* Hbn. Saranac L.; Fentons; Minnewaska; Crosby; Ithaca; McLean; Karner; Albany; Rye; **SI**; general on **LI**. May-Aug.

## OXYCILLA Grote

- 3467 *O. malaca* Grt. **SI**, Je (Ds).

## PHYTOMETRA Haworth

(Prothymia Hübner)

- 3459 *P. rhodarialis* Wlk. Buffalo. Aug.  
 3460 *P. semipurpurea* Wlk. Rhinebeck; Katonah; Rye; Mosholu; Woodbury (CU); **SI**, Jl, *Fulda* (Ds); **LI**: Amagansett; Yaphank. Jl-Sep.

## PLEONECTYPTERA Grote

- 3445 *P. pyralis* Hbn. Rye; **LI**. Form *geometralis* Grt. is reported by Smith from Lahaway, N. J.  
 3449 *P. habitalis* Wlk. "N. Y." (Sm); Ithaca (Benjamin).

## MYCTEROPHORA Hulst

- 3441 *M. slossoniae* Hulst. Big Ind. Val. Jl. The members of this genus are generally mistaken for geometers.

<sup>72</sup> Caterpillars of this genus have been reported as living in rotten wood.

## PHIPROSOPUS Grote

- 3436 *P. callitrichoides* Grt. Rye; Fordham; **SI**; **LI**: common at Jamaica. May–Smilax.

## RIVULA Guenée

- 3434 *R. propinqualis* Gn. Common and general, especially in damp places. Je–Aug. Food probably grass.

## GABARA Walker

(*Eucalyptra* Morrison)

- 3420 *G. bipuncta* Morr. Seen from Mosholu and Katonah. Reported also from: Rye; Albany; **LI**: Coram, J1, *Kch*.

## SCOLECOCAMPÀ Guenée

- 3411 *S. liburna* Gey. Evans Center; E. Aurora; Lancaster; Ithaca; Rhinebeck; Rye; **SI**; **LI**: Queens; Yaphank. J1; larva hibernates (Bird). Dead wood.

## SUBFAMILY HERMINIINAE

## PALTHIS Hübner

- 3553 *P. angualis* Hbn. Mt. Marcy; Saranac Inn; Fentons; Geneva; Buffalo; Castile, Je, *Brad* (Fbs); E. Aurora; Rock City; Crosby; Ithaca; McLean; Big Ind. Val.; Onteora Mt., *How*; Ft. Edward; Schenectady; Albany; Rhinebeck; Rye; Ramapo (Ds); Ft. Montgomery; **SI**; **LI**: Yaphank. May–early Sep.
- 3554 *P. asopialis* Gn. Honeoye Falls; Buffalo; E. Aurora; Ithaca; Rye; Florida. End of Je–Sep. Hop (Bird).

## LASCORIA Walker

(*Gaberasa* Walker)

- 3550 *L. ambigualis* Wlk. Saranac L.; Hastings; Yorktown; Buffalo; Vandalia; Potter Swamp; Crosby; Ithaca; McLean; Newport; Schenectady; Rhinebeck; Rye; Ramapo (Ds); **SI**; **LI**: Yaphank; Forest Pk., *Kch* (Fbs). May–Sep.

PHALAEOPHANA Grote<sup>73</sup>(*Heterogramma*)

- 3546 *P. pyramusalis* Wlk. Common wherever looked for, northward to Adirondack Lodge, *Bish*, Saranac Inn, and Peru. Je–early J1; late Aug–Sep.

## BLEPTINA Guenée

- 3536 *B. caradrinalis* Gn. Peru; Saranac Inn; Newcomb; North Cr.; Fentons; Buffalo (Wild); Lancaster; Otto; Ithaca; McLean; New Windsor; Rye; Katonah; **SI**; **LI**: Wading R.; Yaphank. The black-spotted form also occurs. J1–early Aug.

<sup>73</sup> *Hyphenula cacuminalis* Wlk. is labeled "West Farms" in the Angus Collection, almost certainly in error.



## RENIA Guenée

- 3522 *R. salusalis* Wlk. **SI** (Ds); **LI** (Eng). J1.  
 3524 *R. discoloralis* Gn. Fentons; Buffalo; E. Aurora; Ulster Co; Utica; Rye; **SI**; **LI**: Orient, May 10, *Lath.* J1-Aug.  
 3532 *R. sobrialis* Wlk. Ithaca, J1 1, 1882; Rye; **SI**; **LI** (Eng). J1.  
     *R. sobrialis* var. *larvalis* Grt. E. Aurora, Gowanda, *Wild*; Lancaster (EPV); Allegany Pk. (Wild); **SI**, J1, *Ds* (Sm). May.  
 3523 *R. clitosalis* Wlk. Ithaca; Utica. I am not sure that I have this species rightly determined (Fbs).  
 3523 *R. factiosalis* Wlk. Gowanda (*Wild*); E. Aurora; Ithaca; McLean; Karner; Schenectady; **SI**; **LI** (types of *tilosalis* Sm.). J1-Sep.  
 3528 *R. flavipunctalis* Gey. General and rather common. J1-Aug.  
 3530 *R. atrimacula* Sm. Ithaca, Aug 11.

## CHYTOLITA Grote

- 3519 *C. morbidalis* Gn. General wherever looked for. Late May-J1.  
 3519a *C. morbidalis petrealis* Grt. Peru; Black Br.; Adirondack Lodge; Saranac L.; Batavia; Castile, *Brad*; Portage; McLean; Karner; **SI**; **LI**: Forest Pk., *Kch* (Fbs). Je.

## PHILOMETRA Grote

- 3516 *P. metonalis* Wlk. Common throughout the State. J1.  
 3517 *P. eumelusalis* Wlk. Peru; Fentons; Buffalo; Olean; Ithaca; Schenectady; Albany. Late Je-Aug.  
 3518 *P. hanhami* Sm. Karner (Sm).

## PHALAEONOSTOLA Grote

- 3470 *P. larentioides* Grt. Hastings; Cedar Hill; Karner; Kinderhook, *Bish*; Poughkeepsie; West Farms; **SI**; **LI**: Brooklyn. Aug. A scavenger in birds' nests(?).

## HORMISA Walker

- 3512 *H. absorptalis* Wlk. Peru; Saranac; Newcomb; Fentons; Buffalo; Otto; Olean; Ithaca; Varna; McLean; Michigan Swamp, Danby; Albany; Bethelchem; Rye; **SI**. J1-Aug.  
 3513 *H. lithophora* Grt. Ithaca; Little Falls; Albany; "West Farms" (Angus). J1.  
 3514 *H. bivittata* Grt. Waddington; Buffalo. J1.  
 3515 *H. orciferalis* Wlk. "NY" (Edw). A southern species, also known from Ct. and Mass.

## ZANCLOGNATHA Lederer

- 3503 *Z. laevigata* Grt. Fentons; Buffalo; Otto; Allegany Pk. (*Wild*); Wells; Ithaca; McLean; Slaterville; Big Ind. Val.; Onteora Mt., *How*; Schenectady; Karner; Rye; **SI**; **LI** (Eng). J1-early Aug.  
*Z. laevigata* ab. *obsoleta* Sm. Ithaca, McLean (Fbs).

- Z. laevigata* ab. *reversata* Dy. Ithaca, McLean (Fbs).  
*Z. laevigata* ab. *modestalis* Fitch. Ithaca (Fbs).  
 3506 *Z. pedipilalis* Gn. Peru; Saranac L.; Rock City; Potter Swamp; Ithaca; Trenton Falls; Ft. Edward; Schenectady; Newcomb; North Creek; Portageville; New Windsor; Rye; **SI**. Je-early Jl; earlier than *ochreipennis*.  
 3508 *Z. cruralis* Gn. Ithaca; McLean; Poughkeepsie; Fordham; **SI**; **LI**: Lynbrook. Late Je.  
 3507 *Z. protumnusalis* Wlk. Mt. Marcy; Syracuse; **SI**. Late Je; Aug-Sep.  
 3509 *Z. marcidilinea* Guen. Peru; Ithaca; Onteora Mt., *How*; **SI** (Ds); **LI**: Yaphank (Ds). Je-Aug.  
 3510 *Z. ochreipennis* Grt. Peru; Essex Co; Ithaca to **SI**. Species of this group are common all through the State, but are difficult to determine with certainty; therefore I have recorded only fairly typical specimens. Jl-Aug (stragglers in Sep).  
 3499 *Z. lituralis* Hbn. Peru; Saranac L.; Lancaster; E. Aurora; Gowanda; Rock City; Ithaca; McLean; Schoharie; New Windsor; **LI** (Eng). Je-early Aug.  
 3500 *Z. theralis* Wlk. Peru; Mt. Marcy, *Hill* Coll.; Fentons (Lint); Schoharie; **LI**: Woodhaven (Eng). Je.  
 3502 *Z. inconspicualis* Grt. Peru; Mt. Marcy, *Hill* (Grt); Ithaca (Fbs); McLean. Jl-Aug.  
 3501 *Z. minoralis* Sm. Schenectady. Aug.

## PARAHYPENODES Barnes and McDunnough

- *P. quadralis* B. & McD. Newcomb, Jl 5; McLean, Jl 30.

## EPIZEUXIS Hübner

(With *Pseudaglossa* Grote)

- 3485 *E. americalis* Gn. General and common. Larvae in birds' nests, *Dobroscky* (Fbs). Je-Sep.  
 3486 *E. aemula* Hbn. General and very common. Je-Sep. Larvae in birds' nests, *Dobroscky* (Fbs).  
 3496 *E. lubricalis* Gey. Peru; Jay; Fentons; Mt. Marcy; Rochester (Angle); Buffalo; Otto; Allegany Pk. (*Wild*); Castile, *Brad*; Ithaca; McLean; DeBruce; Schenectady; Rhinebeck; Croton-on-Hudson, Je (Ds); Crugers; Katonah; **SI**; **LI**: Newtown (Eng); Orient, *Lath*. Jl-Sep. Grass or dead leaves.  
 3494 *E. denticulalis* Harvey. Peru (CU); Ithaca; **LI**: Newtown (Eng). Jl.  
 3487 *E. scobialis* Grt. Ithaca; McLean; E. Aurora (*Wild*); **LI**, general (Eng). Jl-Aug.  
 3490 *E. rotundalis* Wlk. Buffalo; Otto; E. Aurora (*Wild*); Wells; Ithaca; McLean; **LI**: Orient, *Lath*. Jl-Aug.  
 — *E. julia* B. & McD. (Sm. MS.). Ithaca, not rare in 1922; Onteora Mt., *How*. Jl-early Aug.  
 3493 *E. merricki* Sm. Otto; E. Aurora (*Wild*).  
 — *E. diminuentis* B. & McD. Ithaca; **LI**: Coram, *Kch* (Fbs). Jl.  
 3491 *E. forbesi* French. Ithaca, Jl.

## DYSPYRALIS Warren

- 3475 *D. illocata* Warr. (*humerala* Sm.). E. Aurora (Wild); Ithaca; McLean. J1-Sep.  
 3477 *D. nigellus* Strk. (*Epizeuxis*). E. Aurora (Wild); Ithaca. J1.

## SUBFAMILY EREBINAE

## ANOMIS Hübner

- 3407 *A. erosa* Hbn. Ithaca (Sep); Rye; **SI**, Oct (Ds); **LI**: Greenport. Cotton and other Malvaceae.

## ALABAMA Grote

- 3406 *A. argillacea* Hbn. COTTON MOTH. A subtropical and Gulf-strip species, straying north in the fall to Mt. Marcy, some seasons in large numbers. Cotton; at Rye the moth has been known to puncture thin-skinned grapes (Bird).

## SYLECTRA Hübner

- 3402 *S. ericata* Cr. NYC. A stray from the Tropics.

## PLUSIODONTA Guenée

- 3400 *P. compressipalpis* Gn. Plattsburg; Buffalo; Castile, *Brad*; Crosby; Ithaca; Albany; Rhinebeck; Poughkeepsie; New Windsor; Rye; **SI**. Late May-early Aug. Moonseed vine.

## SCOLIOPTERYX Germar

- 3399 *S. libatrix* L. HERALD MOTH. Peru; Keene Val.; Saranac L.; Mountain L.; Fulton Co; Clayton; Buffalo; Otto; E. Aurora; Allegany Pk.; Castile; Ithaca; McLean; Schenectady; Hebron, *Wls*; Rhinebeck; Rye; Florida; Kitchawan; **SI**; **LI**: Aqueduct. Late J1-Aug; late fall. Willow.

## CALPE Treitschke

- 3398 *C. canadensis* Beth. Plattsburg; Essex Co; Buffalo; Marilla (Wild); Ithaca; McLean; Trenton Falls; Rye; **SI**; **LI**: E. New York. Late Je-early Sep. Thalictrum.

## THYSANIA Dalman

- 3392 *T. zenobia* Cr. Buffalo; Albany; NYC. Aug. A tropical wanderer.

## EREBUS Latreille

- 3391 *E. odora* L. BLACK WITCH. New Russia (*Jones*); Buffalo; Kendall; Ithaca; Albany (NYS); **SI**, J1 and Sep (Ds); **LI**: Jamaica; Parkville. Aug. A frequent stray from the Tropics. Larva on papilionaceous trees.

## ANTIBLEMMA Hübner

- 3361 **A. inexacta** Wlk. E. New York (Shoe). The type and var. *guttula* occurred together.

## ANTICARSIA Hübner

- 3359 **A. gemmatilis** Hbn. VELVET BEAN CATERPILLAR. Ithaca; Rye; **SI**, Sep (Ds); **LI**: Orient Pt., *Lath*; Yaphank. Oct-Nov. A frequent stray from the South in autumn.

## PANOPODA Guenée

- 3352 **P. rufimargo** Hbn. New Russia; Buffalo; Lancaster; E. Aurora; Castile, *Brad*; Ithaca; McLean; Rogers Rock, L. George; Albany and southward incl. **LI** and **SI**. Je-Aug. Oak. Vars. *rubricosta* Gn. and *carneicosta* Gn. from Ithaca.

## PHOBERIA Hübner

- 3349 **P. atomaris** Hbn. Lancaster; Ithaca; Fordham; **SI**; **LI**: Brooklyn; Central Pk.; West Hills, Massapequa (Ds). Late Ap-early May. Common, but easily overlooked.

## HYPOCALA Guenée

- 3347 **H. andremona** Cr. Brockport; Karner; Rye, Sep; **SI**, Sep (Ds); **LI** (Eng). A stray from the Tropics.

## SYNEDA Guenée

- 3328 **S. limbolaris** Gey. Mt. Whiteface; Clayton; Evans Center; Lancaster; Gowanda; Buffalo; Portage; Ithaca; Big Ind. Val.; Poughkeepsie; Katonah; Ramapo; **SI**; **LI** (Doll). May-Jl.
- 3333 **S. alleni** Grt. Karner; Peru, *Mix & Everett* (Fbs). Je.

## DRASTERIA Hübner

(*Syneda* auct.)

- 3326 **D. atlantica** B. & McD. (*graphica* auct.). Saranac L. (McKnight, probably in error for *alleni*); **SI**; **LI**: Rockaway; Babylon; Wading R.; Yaphank; Montauk Pt.; Orient, *Lath* (Fbs). Ap-May; Aug.

## MELIPOTIS Hübner

- 3308 **M. nigrescens** G. & R. **SI**: Ft. Wadsworth, Je 5, 1924 (Ds); **LI**: Rockaway Pt., *Kch*.
- 3312 **M. jucunda** Hbn. **SI**, May, Jl (Ds); **LI**: Yaphank, Je (Ds).

## CISSUSA Walker

- [3294 **C. spadix** Cr. This species ranges northward to Mass., and therefore it undoubtedly occurs in NY. May.]

## RAPHIA Hübner

- 3289 *R. frater* Grt. Plattsburg; Peru; Lancaster; Ithaca; Big Ind. Val.; Onteora Mt.; New Windsor; Rye; **SI**; **LI**: Flatbush; Newtown; Woodhaven. Ap-Jl. Poplar.
- 3288 *R. abrupta* Grt. Buffalo. End of Ap-Je.

## SUBFAMILY PLUSIINAE

## ABROSTOLA Ochseneimer

- 3287 *A. urentis* Gn. Plattsburg; Peru; Saranac L.; Spier Falls; Rochester (Angle); Lancaster; Buffalo; Ithaca; McLean; Trenton Falls; Schenectady; Albany; **LI** (Doil). May; Jl-early Sep.
- 3286 *A. ovalis* Gn. Kenwood; Albany. Aug.
- 3285 *A. formosa* Grt. Fentons; Ithaca; Albany; Bear Mt., *Erb* (Eng); **LI**: Brooklyn. Je-Jl. Vaccinium.

## PALEOPLUSIA Hampson

- 3284 *P. venusta* Wlk. Plattsburg; Peru; Saranac L.; Waddington. Aug.

## PSEUDEVA Hampson

(*Panchrysia*)

- 3281 *P. purpurigera* Wlk. Keene Val.; Saranac Inn; Lancaster; Ithaca. Late Je-Jl. Thalictrum.

## EOSPHOROPTERYX Dyar

- 3280 *E. thyatyroides* Gn. Fentons; New Russia (*Jones*); Buffalo; Lancaster; Ithaca; Albany; Rye; **SI**. Je-Sep.

## PLUSIA Hübner

- 3276 *P. aerea* Hbn. Plattsburg; Keene Val.; Batavia; Buffalo; E. Aurora; Castile; Potter Swamp; Ithaca; Trenton Falls; Schoharie; Schenectady; Rye; Pine I. (Ds); **SI**; **LI**: Brooklyn; Orient, *Lath*. End of Je-Sep (one straggler in Oct).
- 3275 *P. aeroides* Grt. Plattsburg; Keene Val.; Wilmington; Mt. Marcy; Fentons; Waddington; Lancaster; E. Aurora (*Wild*); Ithaca; McLean; Moravia; Little Falls; Stony Clove, Greene Co; Schoharie; Rhinebeck. Jl-Aug. Spiraea.
- 3277 *P. balluca* Gey. General, not very common. Jl-Aug. Hop.

## AUTOGRAPHIA Hübner

- 3265 *A. mappa* G. & R. Plattsburg; Mt. Marcy; Fentons.
- 3264 *A. bimaculata* Steph. Keene Val.; Franklin Co; Fentons; Rhinebeck; **LI**: Jamaica. Aug.
- 3259 *A. biloba* Steph. Buffalo; E. Aurora (*Wild*); Ithaca, Aug 28 and Oct 28; Rye, Nov 5; **SI**; **LI**: Brooklyn; Jamaica; Wading R. A widespread southern species, straying northward. On various herbs; a greenhouse pest on **LI**.



- 3248 *A. verruca* Fab. **SI; LI:** Woodhaven; Flatbush.
- 3260 *A. oo* Cr. (*rogationis* Gn.). Ithaca; W. Troy, a conservatory pest. Aug-Oct. Cabbage.
- 3261 *A. precationis* Gn. Common everywhere. Je-Nov, three broods. Hollyhock and other herbaceous plants.
- 3266 *A. gamma pseudogamma* Grt. Syracuse, JI.
- 3241 *A. ni* Hbn. **LI:** Brooklyn (Ottol). JI. A stray from the Tropics.
- 3249 *A. brassicae* Rlv. CABBAGE LOOPER. Rochester; Elba, somewhat injurious (Cy); Buffalo; E. Aurora; Ithaca; Albany; and general southward. JI-Nov. Cabbage and other herbs.
- 3254 *A. oxygramma* Gey. Ithaca, Oct; **LI:** Brooklyn, bred from Solidago by Wright (Eng).
- 3237 *A. alias* Ottol. Keene Val.; Lewis Co; New Russia (*Jones*); Onteora Mt., *How.* The *u-aureum* records from Mt. Marcy and Keene Val. are also likely to belong here. Aug.
- 3239 *A. octoscripta* Grt. Mt. Marcy; Buffalo (*Wild*); Ithaca; **LI:** Glencove, *Tepper*. Sep.
- 3244 *A. altera* Ottol. Adirondacks (Ottol).
- 3236 *A. rectangula* Kby. Fentons; New Russia (*Jones*); Waddington; E. Aurora (*Wild*); Cascade L.; Ithaca; Trenton Falls; Albany; Poughkeepsie; **LI:** Central Pk., Je (Ds). JI-Aug.
- 3234 *A. selecta* Wlk. Adirondacks, Aug (Ds).
- 3233 *A. epigaea* Grt. Franklin Co; Fentons.
- 3274 *A. ampla* Wlk. Plattsburg; Mt. Marcy; Fentons; E. Aurora (*Wild*); Ithaca; McLean; Schenectady. JI.
- 3251 *A. basigera* Wlk. Rochester (Angle); Buffalo, Oct (*Wild*); Rye; **SI.** Aug-Sep.
- 3230 *A. falcigera* Kby. CELERY LOOPER. The type and the brown form *simplex* Gn. are common everywhere. May-Nov. General on herbaceous plants.
- 3257 *A. contexta* Grt. Plattsburg; Peru; Adirondacks; Lancaster; Ithaca; Oneonta; Hebron (Wls); Albany; Rye; **SI; LI:** Maspeth, *Schott* (Eng). Je, Aug-Sep 1. Grasses.
- 3255 *A. festucae putnami* Grt. Plattsburg; Peru; Newcomb; Fentons; E. Aurora (*Wild*); Cincinnati (Dnd); Ithaca; Liberty; Stony Clove, Greene Co; Albany. Je-Aug. Larva on grasses and other monocotyledons.

## SUBFAMILY PANTHEINAE

## CHARADRA Walker

- 3215 *C. deridens* Gn. Fentons; Lake Forest; Evans Center; Lancaster; E. Aurora; Ithaca; DeBruce; Big Ind. Val.; Sharon; Schenectady. **LI:** Forest Pk., *Kch.* May-Aug. Oak, birch, and elm.

## COLOCASIA Ochsenheimer

(*Demas* Stephens)

- 3206 *C. propinquilinea* Grt. Ithaca; Oneonta; Albany; Oliverea (Ds). Je-JI. Walnut, maple, oak, and beech.
- 3205 *C. flavicornis* Sm. Saranac L.; Buffalo; Ilion; Albany; New Windsor. May.
- C. flavicornis* var. *infanta* Sm. Ilion; Ithaca, *Eyer*, transitional.

## PANTHEA Hübner

- 3211 *P. furcilla* Pck. Plattsburg; Peru; Franklin Co; New Russia (*Jones*); Buffalo; E. Aurora (*Wild*); Ithaca; Rogers Rock, L. George (*Jones*); Lestershire; Ulster Co; Sharon Sps.; Schoharie; Albany; Bethlehem; Poughkeepsie; **LI** (Doll). A northern species generally. Ap-Je; late Jl-Aug. Pine and larch.
- 3207 *P. acronyctoides* Wlk. Plattsburg, *Hudson*; Ithaca; Oneonta; Saratoga; Mt. Kisco, *Hill*. Je-Jl.

## SUBFAMILY CATOCALINAE

## ZALE Hübner

(*Phaeocyma*, *Homoptera* Boisduval)

- 3175 *Z. lunata* Dru. Saranac **L**; Buffalo; Lancaster; E. Aurora; Oneonta; Schenectady; Karner; Rhinebeck; Rye; **SI**; **LI**: Orient, *Lath*. Apparently rare northward. Jl-Nov, mostly Sep. Willow, alder, etc.
- 3176 *Z. unilineata* Grt. Saranac **L**; E. Aurora (*Wild*); Ithaca; Karner; Albany; Crugers; **SI**; **LI**: Wyandanch (**Ds**). Late May-Je.
- 3180 *Z. aeruginosa* Gn. Fentons; Rock City; Schenectady; Karner; **SI**, May (**Ds**). **LI**: Yaphank.
- 3181 *Z. undularis* Dru. General and not rare. Var. *umbripennis* Grt. occurs at: Ithaca, *Babiy*; Rye; Fordham; Bronxville; **SI**; **LI**: Newtown; Yaphank. May-Aug.
- 3182 *Z. coracias* Gn. Rye; **LI**: E. New York (Barnes Coll.). Oak(?).
- 3184 *Z. minerea* Gn. Plattsburg; Clayton; Buffalo; Rock City; Ithaca; Big Ind. Val.; Ilion; Sharon; Karner; New Windsor; **LI**: Yaphank. Late Ap-Je ("Sep"? error for *lunata*).
- 3185 *Z. lunifera* Hbn. Franklin Co; Oneonta; Rye; **SI**, Oct (**Ds**); **LI**: Parkville; Newtown; Lynbrook. Pine.
- 3188 *Z. duplicata* Beth. Peru; Lake Forest; Hudson; **LI**: Merrick. Je.
- 3189 *Z. helata* Sm. Peru; Ithaca; Jamestown; Karner; Ft. Montgomery (**Ds**); **LI**: Brooklyn. May-Je.
- 3192 *Z. obliqua* Gn. Ithaca; Shelving Rock; Karner; **SI**; **LI**. Late Ap-Je; Aug. Pine(?).
- Z. obliqua* var. *metata* Sm. Karner. May; Aug.
- Z. obliqua* var. *curema* Sm. Karner (Sm). May.
- 3197 *Z. cingulifera* Wlk. Saranac **L**; White **L**; Brockport; Ithaca; Karner; New Windsor; Rye; **LI**: Brooklyn. Late Ap-May; **Jl**. Larva perhaps on *Calycanthus* (*calycanthata* S. & A., not auct.).
- 3199 *Z. horrida* Hbn. Fentons; Clayton; Lake Forest; Lancaster; Castile, *Brad*; Ithaca; McLean; Potter Swamp; Karner; Rhinebeck; Rye; Nyack (**Ds**); **SI**; **LI**, generally. May-Aug.

## ARGYROSTROTIS Hübner

(*Poaphila* Guenée, *Agnomonina* Hübner)

- 3163 *A. quadrifilaris* Hbn. Fentons; Karner; **SI**; **LI**: Yaphank. May-Je. Larva reported from cotton.
- 3164 *A. anilis* Dru. Ithaca; Rogers Rock (*Jones*); Albany; Bethlehem; **SI**; **LI**: Amagansett; Orient, *Lath*. Jl-Aug.

## CELIPTERA Guenée

- 3153 *C. frustulum* Gn. Dutchess Co; Rye; Van Cort. Pk. (Ds); Bronxville; **SI**; **LI**: Brooklyn. May-Je; Aug.

## DORYODES Guenée

- 3151 *D. bistriaris* Gey. Ithaca; Rye; **SI**, on salt meadow (Ds); **LI**: Rockaway Beach; Aqueduct; Glen Cove. Je-Aug.

## REMIGIA Guenée

- 3142 *R. latipes* Gn. (*repanda* auct.). Ithaca; Big Ind. Val.; Rye; **SI**. Most probably transient from the South; taken in NY in Sep-Oct.  
 3138 *R. marcida* Gn. **SI**, Aug (Ds); **LI**: Forest Pk. (Eng). A good species.  
 3139 *R. hexastylus* Harv. (*texana* Morr.). Ithaca; **SI**, Oct, Ds (Grt); **LI**: Forest Pk.; Brooklyn.

## CAENURGIA Walker

(*Drasteria* auct.)

- 3131 *C. convalescens* Gn. "N.Y."  
 3135 *C. erechtea* Cr. CLOVER LOOPER. Very common everywhere. Ap-Je; Aug-Sep. Clover and other herbs.  
 3136 *C. crassiuscula* Haw. Very common all over the State. Ap-Je; late Jl-Sep. First brood dwarfed. Grass and other herbs.

## EUCLIDIA Ochsenheimer

- 3130 *E. cuspidata* Hbn. Plattsburg; Black Br.; Saranac L.; Rochester (Angle); Buffalo; Portage; Ithaca; Liberty; Onteora Mt., *How*; Gloversville; Schenectady; Albany; Rhinebeck; Poughkeepsie; Katonah; Cornwall; Rye; Ramapo and Nyack (Ds); **SI**; **LI**: Brooklyn. May-Aug. Clover.

## PARALLELIA Hübner

- 3127 *P. bistriaris* Hbn. Common and general, although the only **LI** record I happen to have is Brooklyn. Late May-Aug. Maple.

## ALLOTRIA Hübner

- 3123 *A. elonympha* Hbn. Buffalo; Catskills (Ulster Co), *Nic* (Shoe Coll.); Millbrook; Katonah; **SI**; **LI**: Merrick. Two broods, early spring and Jl-Aug. Reported from Glycine and from hickory.

## EUPARTHENOS Grote

- 3122 *E. nubilis* Hbn. Rather common all over the State. Two broods, May and Aug. Robinia.

CATOCALA Schrand <sup>74</sup>

- 3023 *C. epione* Dru. Evans Center; Buffalo; Ithaca; Albany; Poughkeepsie; Millbrook; Crugers; Rye; West Farms; **SI**; **LI**: Greenport (Eng). Jl-Aug. Hickory; reported also from oak.
- 3044 *C. lachrymosa* Gn. Buffalo, *EPV*; Newburgh, *Morton*. Jl. Walnut or possibly oak.
- 3043 *C. viduata* Gn. "NY" (Lint). Walnut and pecan.
- 3042 *C. vidua* S. & A. Rochester; Ithaca; Sidney; Millbrook; New Windsor; Rye; Rockland L., Oct (Ds); Pearl R. (Wat); Central Pk. in NYC; **SI**; **LI**: Brooklyn; Amagansett; Yaphank. Aug-Sep. Walnut, hickory, pecan, and possibly oak.
- 3040 *C. dejecta* Strk. Bangall; Rye; **LI**: Brooklyn. Aug.
- 3039 *C. recta* Grt. Saranac L.; Rochester; Buffalo; E. Aurora; Ithaca; Sharon; Albany; Bethlehem; Rhinebeck; Millbrook; Rye; West Farms; **SI**; **LI**: Brooklyn. Late Aug-Sep. Hickory.
- 3033 *C. flebilis* Grt. Hastings Center; Albany; Millbrook; Rye; West Farms; **LI**: Brooklyn; Yaphank. Hickory.
- 3031 *C. robinsonii* Grt. Buffalo; Ithaca; Kenwood, Albany; Millbrook; New Windsor; Rye; West Farms; Bronx Pk., formerly not uncommon (Wat); **SI**; **LI**: Newtown. Sep. Hickory.
- 3035 *C. obscura* Strk. Pulaski; Rochester (Angle); Buffalo; Binghamton; Millbrook; West Farms; **SI**, Jl-Aug. Hickory.
- 3036 *C. residua* Grt. Lancaster; Buffalo; Ithaca; Sharon; Akhurst; Schenectady; Rye; West Farms (type); **SI**; **LI**: Brooklyn. Aug-Sep.
- 3041 *C. insolabilis* Gn. Buffalo; Rye; West Farms; **LI**: Brooklyn. Jl. Hickory.
- 3034 *C. angusi* Grt. West Farms (types of species and of var. *lucetta* H. Edw.). Hickory.
- 3032 *C. judith* Strk. Millbrook; West Farms; **SI**; **LI**: Maspeth, *Olsen* (Ds). Late Jl. Hickory.
- 3095 *C. andromedae* Gn. (*Hypogramma*; *C. tristis* Edw.). Millbrook; West Pt., *Robn* (Ds); **SI**; **LI**: Amagansett; Yaphank. Jl-Aug. Originally published as feeding on Andromeda.
- 3053 *C. relictata* Wlk. The typical (dark) form is known from: Fentons; Rochester; Batavia; Buffalo; E. Aurora; Oneonta; S. Gilboa (NYS); Sharon Sps.; Schenectady; Albany; Karner; Millbrook; NYC; **SI**; **LI**: Brooklyn. Var. *clara* Beut. (*relictata* auct.) is from: N. Elba; Karner; Rhinebeck; West Farms; Battery Pk., NYC (Wat); **LI**: Floral Pk. Var. *phrynia* H. Edw. occurs at: Clayton; Karner; Ithaca. Aug. Poplar (will feed on willow). This and the next eight species all feed on willow or poplar.
- 3081 *C. cara* Gn. General from the Adirondacks to Buffalo and Yaphank. Late Aug-Sep. Willow.
- 3083 *C. amatrix* Hbn. Adirondacks; Rochester (Angle); Buffalo; Ithaca; Schenectady; Albany; Pittstown; Millbrook; Rye; Bronxville; **SI**; **LI**: Brooklyn; Maspeth (Olsen). Sep. Willow and poplar. Var. *nurus* Wlk. is from: Rochester; Elmira; Cedar Hill; **SI**.

<sup>74</sup> The first thirteen species here listed in this genus belong to a group all of whose members seem to feed on hickory, or more rarely on walnut. The following species belong to a group limited to willow and poplar: *relictata*, *cara*, *amatrix*, *marmorata*, *concupens*, *unijuga*, *meskei*, *briseis*, *parta*.

- 3054 **C. marmorata** Edw. Millbrook; West Farms; **LI**: Brooklyn, *Schott* (Ds).  
 3082 **C. concumbens** Wlk. Plattsburg to Buffalo and **SI**, rare on **LI**. Sep. Willow and poplar.  
 3068 **C. unijuga** Wlk. General, including **LI**. Aug-Sep. Poplar and willow.  
 3067 **C. meskei** Grt. Schenectady; Albany.  
 3065 **C. briseis** Edw. Plattsburg; Fentons; Clayton; Buffalo; E. Aurora; Evans Center; Castile, *Brad*; Ithaca (including var. *albida* Beut. in Benjamin Coll.); Catskills; Oneonta; Sharon; Saratoga; Schenectady; Millbrook; **SI**; **LI**: Glendale; Yaphank. Jl-Aug.  
 3055 **C. parta** Gn. Throughout the State, common on **LI**. Aug-Sep. Willow and poplar.  
 3097 **C. coccinata** Grt. Fentons; Buffalo; Albany; Millbrook; Poughkeepsie; **LI**: Woodside, *Metzger* (Eng). Scrub oak (*Quercus nana*).  
 3096 **C. herodias** Strk. **LI**: Wading R. (Eng). Scrub oak.  
 3103 **C. ultronia** Hbn. General. Late Jl-Aug. Wild cherry and plum; reported also from Cornus and oak.  
 3051 **C. ilia** Cr. General. The varieties have not been separately recorded, but seem to be generally distributed with the type. Jl-Oct, mostly Aug. Oak.  
 3020 **C. innubens** Gn. Ithaca; Albany; Tarrytown; Bronx Pk. (Joutel); **LI**: Woodhaven, *Erb* (Eng). Gleditschia; (reported also from walnut).  
 3046 **C. nebulosa** Edw. Buffalo; Bronx Pk. (Joutel); **LI**: Brooklyn.  
 3021 **C. piatrix** Grt. Saranac L.; Buffalo; Ithaca; Schenectady; Bethlehem; Rhinebeck; Millbrook; Poughkeepsie; New Windsor; Rye; Bronx Pk. (Joutel); common on **LI**. Aug-Sep. Walnut, hickory, and persimmon.  
 3048 **C. neogama** S. & A. Fentons; Rochester, common (Angle); Buffalo; Oneonta; Schenectady; Millbrook; Rye; **SI**; **LI**: Brooklyn. Walnut.  
 3047 **C. subnata** Grt. Clayton; Ithaca; Sharon; Bronxville (Ds); Bronx Pk. (Joutel); **LI**: Newtown; Montauk (Eng). Aug-early Oct. Walnut.  
 3052 **C. cerogama** Guen. Clayton; Fentons; Plattsburg; Sharon; Buffalo; E. Aurora; Ithaca; Trenton Falls; Millbrook; Rye; **SI**; **LI**, generally. Aug. Linden.  
 3045 **C. palaeogama** Gn. General and not rare. Var. *phalanga* Grt. occurs: **SI**; **LI**: Wading R.; Forest Pk. Var. *annida* Fager was found at Hemlock L., Sep 1, 1916, with the type. Aug-early Sep. Hickory and walnut.  
 3022 **C. consors** S. & A. **LI**: Brooklyn; Woodhaven. Hickory.  
 3024 **C. muliercula** Gn. Rye; Van Cort. Pk., common (Wat); **SI**; common on **LI**. Myrica.  
 3030 **C. serena** Edw. Schenectady; West Farms. Aug. Hickory.  
 3025 **C. antinympha** Hbn. Saranac L.; Buffalo; Ithaca; Oneonta; Schenectady; Karner; Poughkeepsie; Millbrook; Rye; **SI**; **LI**: common and general. Jl-Sep. Comptonia.  
 3027 **C. badia** G. & R. Rye; Van Cort. Pk., common (Wat); **SI**; **LI**, common and general. Jl-Sep. Myrica.  
 3026 **C. coelebs** Grt. Fentons; Schenectady. Aug.  
 3028 **C. habilis** Grt. Waddington; Rochester; Buffalo; Orchard Pk. and Gowanda (*Wild*); Ithaca; Binghamton; Hebron; Schenectady; Albany; Millbrook; New Windsor; Rye; **SI**; **LI**: Woodhaven (Eng). Aug-Sep. Hickory.



- 3114 **C. clintonii** Grt. Evans Center; Buffalo; Ithaca; Sharon Sps.; Schenectady. Jl. Rosaceae. This and the next six species represent a group whose members, so far as known, feed on Rosaceae.
- 3104 **C. polygama crataegi** Saund. Jamestown; Evans Center; Lancaster; Otto; Ithaca; Stony Clove, Greene Co; Ilion; Sharon Sps.; Schenectady; Albany; Croton-on-Hudson (Ds); **LI**: Brooklyn (*Doll*). Late Jl-Aug. Rosaceae, especially thorn.
- 3104.1 **C. pretiosa** Lint. Schenectady (type); Rhinebeck; Rye. Rosaceae.
- 3107 **C. praeclara** G. & R. General. Aug. Rosaceae.
- 3113 **C. dulciola** Grt. "NY". Jl. Rosaceae.
- 3106 **C. grynea** Cr. Sharon; Schenectady; Albany; Rhinebeck; Millbrook; Poughkeepsie; Rye; NYC; **SI**; **LI**: Apple and plum.
- 3094 **C. gracilis** Edw. Everywhere in the State; not rare. Jl-Aug. Rosaceae.
- 3116 **C. minuta** Edw. Poughkeepsie; West Farms; NYC; **SI**; **LI**: Brooklyn; Woodhaven; Aqueduct; Yaphank. Jl-Aug. Gleditsia.
- 3119 **C. connubialis** Gn. (*amasia* auct.). Rochester; Schenectady; NYC. Presumably on oak, originally figured on *Cephalanthus*.
- 3118 **C. cordelia** H. Edw. West Farms (Angus). Presumably on oak.
- 3115 **C. similis** Edw. Ithaca; West Farms; **LI**: Yaphank and Riverhead (Ds). Jl. Oak.
- 3117 **C. fratercula** G. & R. E. Aurora (*Wild*); Albany; Sullivan Co; **LI**: Yaphank and Fire Place (Ds). Jl-Aug. Oak.
- 3120 **C. amica** Hbn. Ithaca, Aug 1, 1901; Ulster Co; Millbrook; Rye; **SI**; **LI**, generally. Oak.

## SUBFAMILY NYCTEOLINAE

(Sarrothripinae)

## BAILEYA Grote

- 3016 **B. ophthalmica** Gn. Peru; Saranac L.; Evans Center; Lancaster; E. Aurora (*Wild*); Ithaca; Big Ind. Val.; **SI**. Late May-early Jl.
- 3015 **B. doubledayi** Gn. Plattsburg; Saranac L.; E. Aurora (*Wild*); Castile, *Brad*; Karner; Newton; **SI** (Ds); **LI**: E. New York, *Shoe* (Ds). Je-Jl.
- 3018 **B. dormitans** Gn. Castile, Je, *Brad* (Fbs); Evans Center; Trenton Falls (type); Ilion; **LI**: Newtown (*Doll*); Queens (*Bell and Eng*). Je-early Jl.

## NYCTEOLA Hübner

- 3012 **N. revayana lintnerana** Spey. Keene Val.; Fentons; Chautauqua, *Cy*; Ithaca; Lancaster; Onteora Mt., *How*; Schenectady; NYC; **LI**: Brooklyn. Je 27; Aug. Willow.

## CHARACOMA Walker

- 3011 **C. nilotica** Rog. (*proteella* Dyar). Lewiston, *EPV*; Chautauqua; Ithaca; Utica. Jl-Aug. Willow and tamarisk.

## SUBFAMILY EUTELIINAE

## PAECTES Hübner

*(Ingura Guenée)*

- 3008 **P. delineata** Gn. **LI:** Glendale; Woodhaven. Jasmine.  
 3007 **P. abrostoloides** Gn. **SI, JI**—Sep (Ds).  
 3002 **P. oculatrix** Gn. Evans Center; Lancaster; Ithaca; Poughkeepsie; New Windsor; Rye; Katonah; NYC (Joutel); **SI; LI:** Brooklyn; Wading R. (Ds); Orient, *Lath.* Je—Jl.

## EUTELIA Hübner

- 2997 **E. pulcherrima** Grt. Rye; Bronx Pk.; **LI:** Brooklyn. The moth has been beaten from sumac; larva reported to feed on hickory (Bird).

## MARASMALUS Grote

- 3000 **M. inficita** Wlk. Peru; Rochester (Angle); Lancaster; E. Aurora, *Wild*; Ithaca; Big Ind. Val.; DeBruce; Schenectady; Poughkeepsie; Katonah; Rye; Nyack (Ds); Bronxville; **SI; LI:** Jamaica. Je—Aug. Sumac (Reidy).  
 2999 **M. basalis** Grt. (*ventilator* Grt.). Rye; Bronxville; **LI:** Jamaica. Je—Jl.

## SUBFAMILY ERASTRIINAE

## TARACHE Hübner

- 2989 **T. terminimaculata** Grt. Geneva; Lancaster; Ithaca; Sharon; Albany (type); Poughkeepsie; New Windsor. May—Jl.  
 2992 **T. delecta** Wlk. Rye; **SI,** salt meadow, Je (Ds); **LI:** Aqueduct; Woodhaven. Hibiscus.

## TARACHIDIA Hampson

- 2952 **T. ereastrioides** Gn. General and common. Je—Sep. Ambrosia.  
 2956 **T. candefacta** Hbn. General, and as common as the preceding species. May—Aug. Ambrosia.  
 2965 **T. semiflava** Gn. Rhinebeck; **LI:** Yaphank; Merrick. Je.

## SPRAGUEIA Grote

- 2930 **S. leo** Gn. **SI,** Sep.

## XANTHOPTERA Guenée

- 2922 **X. nigrofimbria** Gn. **LI:** Yaphank (Eng).

## EXYRA Grote

- 2917 **E. rolandiana** Grt. Should be well distributed in the State on pitcher plant (*Sarracenia purpurea*). I have seen its work at McLean on pitcher plant (Fbs). May—Je.

## CRYPHIA Hübner

- *C. pervertens* B. & McD. (*secta* auct., *aetheria* auct.). E. Aurora (Wild); Big Ind. Val.; Ilion; **SI**, Je (Ds); **LI**: Forest Pk., Glendale, Coram, Kch (Fbs). Late Je-Jl.

## LITHACODIA Hübner

(Eustrotia Hübner)

- 2898 *L. bellicula* Hbn. Fentons; McLean; Trenton Falls; S. Trenton; Nassau; Poughkeepsie; **SI**; **LI**: Brooklyn; Yaphank. Late Je-Aug.  
 2895 *L. albidula* Gn. Common everywhere. Je-early Aug.  
 2897 *L. concinnimacula* Gn. Plattsburg; Peru; Fentons; Keene (Wild); Geneva; Lancaster; Ithaca; Big Ind. Val.; Onteora Mt., How; Schenectady; Karner; **LI**: Jamaica; Glendale. May-Jl.  
 2894 *L. synochitis* G. & R. Plattsburg; Peru; North Cr.; E. Aurora, West Falls (Wild); Rochester (Angle); Castile, Brad; Ithaca; Big Ind. Val.; Schenectady; Poughkeepsie; **SI**; **LI**: Lynbrook. May-Aug.  
 2899 *L. musta* G. & R. Ithaca, Je 30, Jl 2; Schenectady; **LI**: Newtown (Eng).  
 2902 *L. muscosula* Gn. Common and general. Je-Sep.  
 2901 *L. apicosa* Haw. Apparently general, including **LI**: Forest Pk. (Doll). Late May-Sep.  
 2900 *L. carneola* Gn. With the preceding species, and far more common. End of Je-early Oct. Yellow dock.

## CHAMYRIS Guenée

- 2891 *C. cerintha* Tr. Plattsburg; Peru; Clayton; Geneva; Evans Center; Buffalo; E. Aurora; Ithaca; Binghamton; Sharon Sps.; Schenectady; Albany; Nassau; Rhinebeck; **SI**; **LI**, general. Je-Jl. Wild cherry.

## ARGILLOPHORA Grote

- 2890 *A. furcilla* Grt. Saranac L. (McKnight).

## SUBFAMILY ACRONYCTINAE

## PSYCHOMORPHA Harris

- 2832 *P. epimenis* Dru. Sloatsburg; **SI**; **LI**; Jamaica; Woodhaven; Massapequa. Ap-May. Grape.

## EUTHISANOTIA Hübner

(Eudryas)

- 2829 *E. unio* Hbn. Waddington; Rochester (Angle); Buffalo; Lancaster; Moravia; Castile, Brad; Ithaca; McLean; Trenton Falls; Oneonta; Rhinebeck; Rye; **SI**; **LI**, general. Late Je-Aug. Epilobium and swamp loosestrife.  
 2827 *E. grata* Fab. General. Je-Jl. Grape and ampelopsis.

## OMMATOSTOLA Grote

- 2812 *O. lintneri* Grt. **LI**: Rockaway Beach; Glen Cove; Long Beach; Fire I.  
Originally described from NY. In salt marshes.

## SENTA Stephens

- 2801 *S. defecta* Grt. **SI**, J1 8, 1912 (Ds).

## AMOLITA Grote

- 2803 *A. fessa* Grt. Peru; Ithaca; McLean; Melrose; New Windsor; Rye; **LI**:  
Coram. Je-Aug.

## CALAMIA Hübner

(*Tapinostola* Lederer)

- 2798 *C. inquinata* Gn. (*orientalis* Grt.). Buffalo. Aug.  
2800 *C. variana* Morr. Saranac L.; Sharon; Nassau. Aug.

## ARCHANARA Walker

(*Nonagria*)

- 2792 *A. subflava* Grt. (*subcarnea* Kell.). Buffalo; Rye. Aug-Sep. *Scirpus oc-*  
*cidental*is (Bird).  
2791 *A. oblonga* Grt. Alexandria Bay; Buffalo; Brockport; Ithaca; Rye; **LI**:  
Newtown (Doll). J1-Sep 2. Cattail.  
2794 *A. laeta* Morr. Plattsburg; W. Seneca; Brockport; Buffalo. J1-Aug.  
Sparganium (Bird).

## BELLURA Walker

- 2788 *B. gortynoides* Wlk. Ithaca (larvae, Comstock); Albany; **SI**; **LI**: New-  
town (Doll). Caterpillars in water lilies.  
2789 *B. melanopyga* Grt. **SI**.  
2790 *B. diffusa* Grt. Saranac L., Je; **LI**: Glendale, Aug, *Kch*.

## ARZAMA Walker

(*Sphida* Grote)

- 2785 *A. densa* Wlk. **LI**: Sag Harbor; Orient, *Lath*. Cattail.  
2784 *A. obliqua* Wlk. Buffalo; E. Aurora; Rock City (Ds); Ithaca; McLean  
(larvae); Schenectady; Albany; Rye; **SI**; **LI**. "Northern NY". End  
Ap-Je. Cattail.

## PLAGIOMIMICUS Grote

- 2767 *P. pitychromus* Grt. Buffalo; Schenectady; Albany; Poughkeepsie; Rye;  
Florida; **SI**. Aug.

## STIRIODES Hampson

(*Metoponia*)

- 2763 *S. obtusa* H-S. Rye; **SI**, Je-J1 (Ds); **LI**: Forest Pk.

## DERRIMA Walker

- 2758 *D. stellata* Wlk. The normal form, *henrietta* Grt., has been taken at: Rye; **LI**: Amagansett; Yaphank. Je-Aug.

## ENARGIA Hübner

(*Cosmia* Ochsenheimer)

- 2757 *E. decolor* Wlk. (*paleacea* Esper). Cranberry L., *Htly*; New Russia; Spier Falls (NYS); Fentons; Lancaster; Chautauqua Co; Ithaca; McLean; Schenectady; Albany; Hudson; **LI**: Woodhaven. Aug-Sep. Poplar.

## CIRRHOPIANUS Grote

- 2736 *C. triangulifer* Grt. Rye; **SI**, Aug, *Fulda* (Ds).

## COSMIA Ochsenheimer

- 2735 *C. orina* Gn. Buffalo (*Wild*); Ithaca; **LI**: Wading R.; Yaphank. Jl-Aug. Oak and other trees, feeding by preference on other caterpillars.

## BAGISARA Walker

(*Atethmia*)

- 2730 *B. rectifascia* Grt. Rye (Bird); **LI**: Central Pk. (Doll).

## IPIMORPHA Hübner

- 2724 *I. pleonectusa* Grt. Wilmington; Fentons; Cranberry L., *Htly*; Seneca L.; Rochester; E. Aurora (*Wild*); Evans Center; Ithaca; Sharon; Schenectady. Jl-early Sep. Poplar.

## OGDOCONTA Butler

- 2704 *O. cinereola* Gn. STRIPED GREEN BEAN CATERPILLAR. Evans Center; Lancaster; E. Aurora; Buffalo; Castile; Ithaca; Schenectady; Rhinebeck; New Windsor; Rye; **SI**; **LI**: Mattituck; Orient, *Lath.* Je-Sep.

PAPAPEMA Smith <sup>75</sup>

(*Gortyna*, *Hydroecia*)

- 2658 *P. cerina* Grt. New Windsor; **LI**: Ft. Totten; Glendale. Sep 8-20 (Bird). *Lilium superbum*, *Podophyllum peltatum* (Bird).  
 2659 *P. appasionata* Harv. **LI**. Sep 2-19 (Bird). *Sarracenia purpurea*; bores in all species of *Sarracenia* in the South (Bird).  
 2661 *P. inquaesita* G. & R. Lancaster; Ithaca; Sullivan Co. (Bird); New Windsor; Rye; **SI** (Ds); **LI**: Amagansett, Aug 15-Sep 19 (Bird). Oct. *Onoclea sensibilis* (Bird).  
 2662 *P. speciosissima* G. & R. Buffalo (Bird). Sep 6-16 (Bird). *Osmunda regalis* and *O. cinnamomea* (Bird).

<sup>75</sup> The dates given are those of emergence; adults may be on the wing two weeks later (Bird).



- 2663 *P. marginidens* Gn. (*birdi* Dyar). Buffalo and E. Aurora (Wild); Ithaca; Rye; **SI**; **LI**. Aug 20–Sep 12 (Bird). *Cicuta maculata*, occasionally in large umbellifers (Bird).
- 2664 *P. baptisiae* Bird. **SI**; **LI**: Central Pk. Aug 10–Sep 10 (Bird). *Baptisia tinctoria*, and *B. alba* farther south (Bird).
- 2666 *P. nepheleptena* Dyar (*moeseri* Bird). "NY" (type); Buffalo (Bird); West Seneca (Bird); **SI** (Bird). Sep 20–Oct 15 (Bird). *Chelone glabra* (Bird).
- 2667 *P. furcata* Sm. "LI" (type) (Sm). Aug 30–Sep 17 (Bird). Terminal twigs of ash, *Fraxinus nigra*, *F. americana*, *F. pennsylvanica* (Bird).
- 2668 *P. circumlucens* Sm. Rye; **SI** (Ds); **LI**. Sep 8–28 (Bird). *Apocynum androsaemifolium*, dogbane (Bird).
- 2669 *P. humuli* Bird. Poughkeepsie; Rye, type (Bird); **SI** (Bird); **LI** (Bird). Aug 10–28 (Bird). In gall in stem of hop (Bird).
- 2671 *P. arctivorens* Hamps. Buffalo (Bird). Aug 15–Sep 4 (Bird). *Cirsium* and *Arctium*.
- 2674 *P. merricata* Bird. Ithaca, Sep. *Podophyllum peltatum* (Bird).
- 2676 *P. harrisii* Grt. Buffalo; Karner; **SI** (Ds); **LI**. Aug 20–Sep 10 (Bird). *Heracleum lanatum*.  
*P. harrisii* var. *rubiginosa* Bird. Buffalo (Bird) (type). Aug 17–Sep 7 (Bird). *Angelica atropurpurea* and *Heracleum lanatum* (Bird).
- 2677 *P. astuta* Bird. Rye (type); Buffalo (Bird); Sullivan Co (Bird); **SI**; **LI**. Sep 7–19 (Bird). *Collinsonia canadensis*.
- 2681 *P. impecuniosa* Grt. Buffalo and E. Aurora (Wild); Ithaca; Karner; Rye; **SI**; **LI**. Sep 13–Oct 6 (Bird). *Aster umbellatus*, *A. puniceus*, and *Helenium autumnale* (Bird).
- 2683 *P. purpurifascia* G. & R. COLUMBINE BORER. Franklin Co; Canisteo; Ithaca; Cohoes (Weigel); Corning's Farm, Albany, Aug 15–Sep 10 (Bird); Rye. *Aquilegia canadensis* and cultivated varieties of columbine.
- 2684 *P. lysimachiae* Bird. Rye (type); Sullivan Co (Bird); **SI**; **LI** (Bird). Sep 8–28 (Bird). *Lysimachia quadrifolia*.
- 2685 *P. pterisii* Bird (*triorthia* Dyar). Ithaca; Ilion; Karner; Rhinebeck; Rye (type) (Bird); Sullivan Co (Bird); **LI**. Aug 23–Sep 8 (Bird). *Pteris aquilina* (Bird).
- 2686 *P. cataphracta* Grt. BURDOCK BORER. Gasport (Cy); Buffalo; E. Aurora (Wild); Caledonia (Cy); Ithaca; Reading Center (Cy); Menands; Albany; New Windsor; Rye (Bird); **SI** (Ds). Sep 19–Oct 8 (Bird). *Eupatorium*, *Rudbeckia*, *Lilium*, *Thalictrum*, and generally in the larger perennials; *Arctium* and some cultivated plants (Bird).  
*P. cataphracta* var. *fluxa* Bird. Buffalo (type) (Bird). Aug 28–Sep 14 (Bird). Burdock.
- 2687 *P. duovata* Bird. Rye (type); **LI**, Sep 25–Oct 10 (Bird). *Solidago semper-virens* (Bird).
- 2688 *P. imperspicua* Bird. Buffalo; W. Seneca. This reference is somewhat questionable, but the species may be expected in the Adirondacks region (Bird).
- 2689 *P. rigida* Grt. Buffalo; Lancaster; Ithaca; Cortland; Lestershire; Onondaga Val.; Rye. Sep 12–30 (Bird); early Oct. *Helioopsis helianthoides* and *Zizia aurea* (Bird).

- [2693 *P. nelita* Strk. Should be found in the State (Bird). *Rudbeckia laciniata* (Bird).]
- 2694 *P. sciata* Bird. Buffalo and Sullivan Co (Bird); Rye (type); Sep 15–Oct 17 (Bird). *Veronica virginica*.
- 2695 *P. frigida* Sm. (*thalictri* Lyman). Buffalo (Bird); Rye; Westchester Co; Sullivan Co (Bird); **LI**. Sep 10–30 (Bird). *Thalictrum*.
- 2696 *P. cerussata* G. & R. Buffalo; Rye; **SI**; **LI**: Woodhaven. Sep 12–30 (Bird). *Vernonia noveboracensis*.
- 2698 *P. nebris* Gn. and var. *nitela* Gn. COMMON STALK-BORER. Buffalo; E. Aurora (Wild); Lancaster; Schenectady; Albany; Middletown; Rye; Monsey; **SI**; **LI**: Central Pk. and Wading R. (Ds). Sep 15–Oct 4 (Bird). Preferred food-plants of the subfamily Ambrosiaceae (Bird).
- 2699 *P. duplicata* Bird. Rye (type); **SI**; **LI**: Jamaica. Sep 28–Oct 18 (Bird). *Collinsonia canadensis* is the only known food-plant (Bird).
- 2700 *P. necopina* Grt. (*impertubata* Bird). Lancaster, Buffalo, E. Aurora, and Allegany Pk. (Wild); Westchester Co and **LI** references almost surely belong to *maritima* (Bird). Aug 24–Sep 20. *Helianthus divaricatus* (Bird).
- 2701 *P. maritima* Bird. Lancaster; Ithaca; Rye (type); southern Westchester Co (Bird); **SI** (Ds). Sep 15–Oct 10 (Bird). *Helianthus giganteus* (Bird).
- 2703 *P. eupatorii* Lyman. Buffalo, Rye, and Sullivan Co (Bird). Sep 10–21 (Bird). *Eupatorium purpureum* (Bird).

## PYRRHIA Hübner

- P. umbra* Hbn. Lancaster, E. Aurora, and Buffalo (*Wild*); Rock City; Ithaca; Karner; Poughkeepsie; **SI**, Aug (Ds); **LI**: Newtown; Aqueduct. Ononis, Geranium, Alnus, and cultivated Rhododendron (*Wild*).
- P. exprimens* Wlk. Fentons; Clayton; Rochester; Buffalo; Ithaca; Schenectady; Albany; Rye (Bird); **SI**, **Jl** (Ds). The suffused var. *angulata* Grt. was described from Buffalo, and has been taken also at Utica (**CU**).

## RHODOECIA Hampson

- R. aurantiago illiterata* Grt. Poughkeepsie; Rye (Bird); **SI**; **LI**: Riverhead (Ds). **Jl**–early Aug. Seeds of *Afzelia macrophylla* (Braun).

## GORTYNA Ochsenheimer

- G. immanis* Gn. HOP BORER. Plattsburg; Ithaca; Waterville; Sangerfield; Oneonta; New Windsor; Rye (Bird); **LI**: Yaphank (Ds). Aug 20–Sep 12 (Bird). Works at the crown of *Humulus Lupulus*, but does not actually mine the stem; also at root of *Silphium*, in **Il**. (Bird).
- G. stramentosa* Gn. Ithaca, Sep (Fbs); Rye (Bird); Sullivan Co (Bird); **LI**: Glendale, *Kch*. Aug 20–30 (Bird). Root of *Scrophularia leporella* (Bird).

## XANTHOECIA Hampson

(*Ochria* auct.)

- X. buffaloënsis* Grt. (*latia* Strk.). Buffalo, Sep 20 (Bird). *Saururus cernuus*.

## ACHATODES Guenée

- A. zae** Harr. Plattsburg; Fentons; Geneva (NYS); E. Aurora; Jamestown; Colden; Evans Center; Buffalo; Ithaca; McLean; Trenton Falls; Rye (Bird); **SI; LI:** Brooklyn; Jamaica; Orient, *Lath.* J1-Aug. Bores in elder.

## APAMEA Ochsenheimer

(*Hydroecia*)

- A. u-album** Gn. "NY" (Sm, Neumoegen).  
**A. velata** Wlk. Peru; Essex Co; Fentons; Keene (Wild); Clayton; Geneva; Evans Center; Buffalo; E. Aurora (*Wild*); Castile, *Brad*; Ithaca; McLean; Binghamton; Big Ind. Val.; Onteora Mt.; Schenectady; Albany; New Windsor; Sullivan Co (Ds); Florida; Durlandville; Katonah; Bronxville; Rye; **SI; LI:** Orient, Oct 30, *Lath.* Je-early Aug. Bores in *Carex* (Bird); recorded also from anemone, but this is undoubtedly an error (Bird).  
**A. nictitans** Borkh. Common throughout the State. The var. *erythrostigma* Haw. is also common and general. End of J1-Sep. "Grass" (in Europe). The larvae probably work at roots of grass, or, more likely, of some sedges (Bird).  
**A. erepta ryensis** Bird. Rye, Je 25-J1 6 (Bird). *Tripsacum dactyloides* (Bird).

## HELOTROPHA Lederer

- 2636 **H. reniformis** Grt. Essex Co; Fentons; Buffalo (Wild); Lancaster; Ithaca; Oneonta; Sharon; Schenectady; Rye (Bird); **SI.** The var. *atra* Grt. is dominant southward: Saranac L.; Rochester (Angle); Lancaster; Seneca L.; Ithaca; Sharon; Schenectady; Albany; **SI; LI:** Delhaven; Yaphank. J1-Sep. Probably on Iris.  
 2634 **H. caduca** Grt. (*Erastris*). Rye. Nuphar.  
 2635 **H. retis** Grt. (*Erastris*). "NY" (Barnes Coll.), J1 2.

## XYLOMOEA Staudinger

- **X. chagnoni** B. & McD. Ithaca (CU), Aug.

## MENOPSISIMUS Dyar

- 2513 **M. caducus** Dyar. Peru; Mt. Marcy, trail; Adirondack Lodge; E. Aurora (Wild); Portage; Ithaca; McLean; Trenton Falls; Big Ind. Val. Our smallest noctuid. Probably general but overlooked. May-Sep.

## MONODES Guenée

(*Oligia*)

- 2608 **M. festivoides** Gn. Peru; Adirondack Lodge; Evans Center; Rock City; Portage; Ithaca; Big Ind. Val.; Onteora Mt., *How*; **SI; LI:** Woodhaven; Amagansett; Yaphank. May-J1.  
 2607 **M. chalcedonia** Hbn. Reported from: Saranac L.; Lancaster; Buffalo. I have seen no specimens from the north, and suspect the records are based on brilliant individuals of the preceding. May-Je.

- 2606 *M. versicolor* Grt. Buffalo; Lancaster. Jl. Dead leaves of pine and balsam fir or oak(?).  
 2611 *M. grata* Hbn. Gowanda, Je (*Wild*).

## BALSA Walker

- 2600 *B. malana* Fitch. MANY-SPOTTED APPLE WORM. General. May-Aug. Apple.  
 2601 *B. tristrigella* Wlk. General, and quite as common, as a rule, as the preceding species. Ap-Je, Aug.  
 2602 *B. labecula* Grt. Evans Center; Ithaca; McLean; Albany; Poughkeepsie; LI: Forest Pk.; Brooklyn. May-early Je; Aug.

## PLATYSENTA Grote

- 2598 *P. videns* Gn. Peru; Saranac L.; Waddington; Rochester; Ithaca; Poughkeepsie; Rye; SI; LI: Newtown; Woodside. Larvae exposed on panicles of several late-flowering perennials, where they eat the ovules (Bird). May-early Sep.

## CRAMBODES Guenée

- 2595 *C. talidiformis* Gn. Saranac L.; Lancaster; Ithaca; McLean; Schenectady; Albany; Rhinebeck; Rye; SI; LI: Newtown. Je-Sep. Verbena.

## GALGULA Guenée

- 2592 *G. hepara* Gn. (♂ *partita* Gn.). Buffalo; E. Aurora; Gowanda; Ithaca; Schenectady; New Windsor; SI; LI: Brooklyn. Je-Jl; Sep-Oct.

## PROXENUS Herrich-Schaeffer

- 2590 *P. miranda* Grt. General and not rare. Je-early Jl; Aug-early Oct. Apparently a cutworm.

CARADRINA Ochsenheimer <sup>76</sup>

- 2579 *C. meralis* Morr. "NY" (Lint). Not seen.  
 2577 *C. multifera* Wlk. Plattsburg; Cascade L. (Adirondacks); Fentons; Ithaca; Big Ind. Val.; Onteora Mt., *How*; Sharon; Schoharie; Kaaterskill; LI: Brooklyn. Aug-Sep.  
 2578 *C. extima* Wlk. LI: Brooklyn (this may be the species reported as *meralis*).  
 2581 *C. tarda* Gn. (*Anorthodes prima* Sm.). E. Aurora (*Wild*); Ithaca; LI: E. New York. Jl-early Sep.

## LAPHYGMA Guenée

- 2574 *L. frugiperda* S. & A. FALL ARMY WORM. General, northward to Schenectady, Utica, Ithaca, Buffalo; Fentons. The var. *obscura* Rly. is general with the species. Jl-early Oct.

<sup>76</sup> The larvae of this genus are cutworms.

## PRODENIA Guenée

- 2568 *P. dolichos* F. (*commelinae* S. & A.). Seneca L.; Rye; **SI**; **LI**: Brooklyn (Ottol). Je; Aug-Oct. General on low plants.
- 2569 *P. ornithogalli* Gn. COTTON CUTWORM. Lewis Co (a stray migrant); Lancaster; Buffalo; Rye; **SI**; **LI**: Brooklyn; Woodbury; Yaphank. Aug-Oct. General on low plants.

## CATABENA Walker

- 2564 *C. lineolata* Wlk. Plattsburg; Evans Center; Lancaster; E. Aurora; Ithaca; Sharon; Schenectady; Albany; **LI**: Orient, *Lath.* May-Je, late Jl-Aug. Goldenrod, nettle (Wild).

## HYPPA Duponchel

- 2499 *H. xylinoides* Gn. Common everywhere; on **LI** to Yaphank. May-Je, Aug-Sep. A general feeder, probably a cutworm.

## ANDROPOLIA Grote

(*Polia*)

- 2518 *A. contacta* Wlk. Fentons, *Hill*; Cranberry L., *Hily* (Dyar). Late Aug.

## DELTA Hampson

(*Actinotia*)

- 2515 *D. ramosula* Gn. Essex Co; Fentons; Buffalo; E. Aurora; Enfield; Ithaca; Lestershire; Pine Hill; Onteora Mt., *How*; Sharon; Schenectady; Albany; New Windsor; **SI**; **LI**: Central Pk.; Yaphank. May-Je; Aug-Sep.

## ARSILONCHE Lederer

- 2514 *A. albovenosa henrici* Grt. Common everywhere. Definite records are: Plattsburg; Newport; Geneva; Buffalo; Ithaca; Binghamton; Lestershire; Albany; Kinderhook; Brewster; Rye; **SI**. Ap-Aug. Low plants, especially coarse grass-like plants.

## MEROLONCHE Grote

- M. dolli* B. & McD. **LI**: Central Pk., Ap, *Kch* (types).

## APATELA Hübner

(*Acronycta* Ochseneimer)

- 2498 *A. rubricoma* Gn. "NY" (Guenée). **LI**: Woodhaven. Mar-May; Jl-early Sep. Celtis.
- 2491 *A. americana* Harr. AMERICAN DAGGER MOTH. Common throughout the State. May-Jl. Maple.
- 2495 *A. hastulifera* S. & A. Karner; **SI**, Je-Jl (Ds); **LI**: Newtown. The species is doubtless general, but in the imago it is very difficult to distinguish from the next. Alder.



- 2492 **A. dactylina** Grt. Peru; Wilmington; Mt. Whiteface (larvae); Fentons; Rochester; Buffalo; E. Aurora; Castile, *Brad*; McLean (Fbs); Ithaca; Utica; Binghamton; Schenectady; Albany; New Windsor; **SI**; **LI**: Newtown (Doll). May-Jl. Speckled alder (Wild).
- 2486 **A. leporina vulpina** Grt. Keene Val.; Catskills. Poplar, willow, and birch. The asymmetrical larva is distinctive and to be looked for all over the State.
- 2483 **A. populi** Rly. Waddington; Plattsburg; May-Je; Oct. Poplar.
- 2480 **A. lepusculina** Gn. Fentons; Ithaca; Buffalo. Je.<sup>77</sup>
- 2485 **A. chionochroa** Hamp. **LI** (Hamp).
- 2490 **A. innotata** Gn. Everywhere, Plattsburg to Evans and **LI**. Je-Jl. Birch.
- 2492 **A. betulae** Rly. **LI** (Smith & Dyar). May; Sep. Birch.
- 2473 **A. morula** Grt. Plattsburg; Fentons; Clayton; Rochester; Kendall; Lancaster; Evans Center; Otto; Ithaca; Schoharie; Schenectady; Rye; **SI**; **LI**. May; Jl. Elm, apple, and linden.
- 2474 **A. interrupta** Gn. (*occidentalis* G. & R.). Peru; Fentons; Geneva; Rochester; Kendall; Buffalo; E. Aurora; Ithaca; Big Ind. Val.; Trenton Falls; Oneonta; Schenectady; Albany; New Windsor; Mt. Vernon; **SI**; **LI**: Woodhaven; Greenport; Orient Pt.; Shelter I. May-Sep. Elm, apple, plum, and birch.
- 2466 **A. elizabeta** Sm. E. Aurora (Wild); Ithaca; **LI**: Prospect Pk., Brooklyn; Queens (*Bell* and *Eng*). Probably a dark variety of the preceding, which will occur rarely through the State. Aug.
- 2460 **A. laetifica** Sm. Evans Center, Jl.
- 2464 **A. lobeliae** Gn. Fentons; Buffalo; Evans Center; Rock City (Ds); Ithaca; Olivera (Ds); Rhinebeck; Ft. Montgomery (Ds); Rye; **SI**; **LI**: Brooklyn; Aqueduct (Ds). Ap-Aug. Wild cherry (not Lobelia).
- 2463 **A. furcifera** Gn. E. Aurora (Wild); Crosby; New Windsor; **LI**: Newtown; Hempstead Plain. May; Jl-Aug.
- 2461 **A. hasta** Gn. Lewis Co; Otto; Castile, Je, *Brad* (Fbs); E. Aurora; Ithaca; Olivera (Ds); **SI**; **LI**: Hempstead Plain; Babylon. As no structural examination was made, the records for this group are slightly doubtful. Some Ithaca specimens, at least, are of var. *telum* Gn. May-Aug. (Oct, Mar). Wild cherry.
- 2470 **A. radcliffei** Harv. Fentons; Evans Center; Onteora Mt., *How*; Schenectady; Karner; Albany; Olivera (Ds); Rhinebeck; New Windsor; West Pt.; Rye; **LI**: Yaphank. Late Ap-Je. Wild cherry.
- 2475 **A. spinigera** Gn. (*harveyana* Grt.). E. Aurora, Jl 13, 1918, *Dnd*; Olivera and West Pt. (Ds); **SI**; **LI**: Wading R., Yaphank (Ds). May-Jl.
- 2438 **A. pruni** Harr. (*clarescens* auct.). Ithaca; Schenectady; **SI**; **LI**: Brooklyn; Jamaica; Wading R. (Ds). May-Jl northward, May-Je and Aug-Sep on SI. Apple, cherry, etc.
- 2448 **A. subochrea** Grt. (*hamamelis* auct.). E. Aurora, *Wild* (Fbs); Ithaca; Olivera. May-Aug. Hamamelis; beech (Wild).
- 2447 **A. superans** Gn. Mt. Whiteface (Ds); Keene Val.; Lewis Co; Clayton; Buffalo; E. Aurora; Evans Center; Rock City; De Bruce; Liberty; Olivera (Ds); Onteora Mt., *How*; Schenectady; Albany; Rye; **LI**: Flatbush. Je-Aug. Apple, birch, etc.

<sup>77</sup> The New York record for *insita* Smith was evidently due to a confusion of labels, as the New York specimens returned by him with the *insita* label are apparently *lepusculina*.

- 2502 *A. lithospila* Grt. Evans Center; Ulster Co; Karner; Albany; **SI**; **LI**: Aqueduct; Bellport. May-Je; Aug. Chestnut and oak.
- 2465 *A. tritona* Hbn. Fentons; Evans Center; Karner; Albany; **SI**. May, Sep. Vaccinium and other Ericaceae.
- 2433 *A. connecta* Grt. Evans Center; Buffalo; Lancaster; Sharon Sps.; **SI**; **LI**: Brooklyn. Jl-Aug. Willow.
- 2472 *A. funeralis* Grt. Keene Val.; Ithaca; Schoharie; Sharon Sps.; Karner; Washington Hgts., NYC (Wat); **SI**; **LI**: Brooklyn. May-Je. Hickory, birch, elm, apple, etc.
- 2440 *A. fragilis* Gn. Plattsburg; Peru; Keene Val.; Indian Pass, Mt. Marcy; Fentons; Rochester; Lancaster; Salamanca (Wild); Ithaca; Onteora Mt., *How*; Big Ind. Val.; Schenectady; Rye. Je-Aug. Birch.
- 2428 *A. vinnula* Grt. Plattsburg; Evans Center; Buffalo; Rochester (Angle); Schenectady; Albany; Poughkeepsie; New Windsor; Rye; **SI**; **LI**. May-Aug. Elm.
- 2469 *A. grisea* Wlk. Plattsburg; Keene Val.; Fentons; Karner. Je-Jl. Birch, etc.
- 2467 *A. falcula* Grt. "NY", very possibly an error. Hazel.
- 2450 *A. afflicta* Grt. (*hamamelis* auct.). Ithaca; Karner; Albany; Rye; NYC; **LI**: Brooklyn. Mar; late May-Je; Aug. Oak.
- 2432 *A. albarufa* Grt. Karner; Albany; **LI**: Central Pk. May-Jl.
- 2452 *A. increta* Morr. Evans Center; E. Aurora, Irving, Rock City (Wild); Big Ind. Val.; West Pt. (Ds); Stony Clove; **SI**; **LI**: Brooklyn. Sep. Beech (Wild).
- 2451 *A. hamamelis* Gn. (*tristis* Sm.). Ithaca, May 31, 1918; **LI**: Aqueduct (Eng).
- 2435 *A. modica* Wlk. Schenectady; Albany; Rhinebeck; Rye; **SI**; **LI**: Forest Pk. (Doll). Je-Jl. Oak.
- 2436 *A. ovata* Grt. Buffalo (Wild); Ithaca; Schenectady; Albany; New Windsor; West Pt. (Ds); **SI**; **LI**: Lynbrook; Bellport, Wading R. (Ds). May-Jl. Oak.
- 2444 *A. inclara* Sm. (*hamamelis* Sm., *brumosa* auct.). Franklin Co; Onteora Mt., *How*; Ithaca (transitional to *tristis* Sm.); Florida; **LI**: Bellport. Je-Jl.
- 2437 *A. haesitata* Grt. Ithaca; Little Falls; Albany; New Windsor; Florida; **SI**; **LI**: Cold Sp., Yaphank, Southold (Ds). May-Je; Jl.
- 2453 *A. retardata* Wlk. Everywhere in the State, Peru to Hempstead Plain, **LI**. Je-Jl. Maple.
- 2454 *A. caesarea* Sm. E. Aurora, Je 9, 1918 (*Dnd*); **LI**: Brooklyn. Maple? (bred with *retardata*).
- 2434 *A. exilis* Grt. Schenectady; Albany; **LI**: Brooklyn.
- 2501 *A. sperata* Grt. Buffalo and E. Aurora (Wild); Ithaca; Schenectady; Karner; Albany; Liberty; Big Ind. Val.; Rhinebeck; New Windsor; Rye; **LI**: Bellport, *Nic* (Ds). May-Aug. Low bushes, such as poplar and alder.
- 2449 *A. noctivaga* Grt. General but not common. May-Aug. Low bushes.
- 2496 *A. impressa* Wlk. Buffalo and E. Aurora (*Wild*); Geneva; Ithaca; Garri-son. The imago is hardly distinguishable from the next following species. May; Jl; Aug-Sep. Willow.

- 2497 **A. distans** Grt. Peru; Waddington; Onteora Mt., *How*; Karner; Bedford; **LI**: Queens; Yaphank. This is very generally determined as *impressa*, and may not be really distinct. May; Jl 31-Aug 3. Willow.
- 2499 **A. longa** Gn. (*xyliniformis* Gn.). Lake Placid; Buffalo and West Falls (*Wild*); Karner; New Windsor; **SI**; **LI**: Brooklyn; Bellport, *Nic* (Ds). May-Jl. Low bushes.
- 2455 **A. impleta** Wlk. (*luteicoma* G. & R.). In every part of the State, but not common. May-early Jl; Aug-Sep. Prunus, poplar, etc.
- 2508 **A. oblinita** S. & A. SMEARED DAGGER MOTH. Evans Center; Lancaster; Buffalo; E. Aurora; Honeoye Falls; McLean; Binghamton; Albany; Poughkeepsie; and very common southward. End of Ap-Sep. Low shrubs and herbs.
- [2509 **A. lanceolaria** Grt. Is to be expected in the State. Low bushes.]

## AGRIOPODES Hampson

(*Diphthera*)

- 2419 **A. fallax** H-S. Fentons; Buffalo; Albany; Rye; **SI**; **LI**: Glendale, South-haven. May-Aug. Viburnum.
- 2423 **A. lepidula** Grt. Adirondacks; Alexandria Bay, *Kch* (Fbs); Evans Center; Buffalo; Ithaca; Rhinebeck. Je-Jl. Var. *avirida* Sm. is reported by Hampson from "NY".
- 2424 **A. teratophora** H-S. Lancaster; Ithaca; Catskill; Rhinebeck. Je-Aug.

## LEUCONYCTA Hampson

(*Microcoelia*)

- 2418 **L. diptheroides** Gn. General. Var. *obliterata* Grt. is commoner than the type. May-Jl. Solidago (Dyar).

## POLYGRAMMATE Hübner

- 2417 **P. hebraeicum** Hbn. Rye; **LI**: Forest Pk., *Kch*; Flushing (Bell). Jl. Nyssa.

## CERMA Hübner

- 2415 **C. galva** Strk. Clyde. A lost species, most likely not from NY.

## HARRISIMEMNA Grote

- 2404 **H. trisignata** Wlk. New Russia, *Jones*; Buffalo; Ithaca; Catskills (Ulster Co); Coeymans; New Windsor; **SI**; **LI**: Brooklyn. Je-Jl. Ilex, lilac.

## CHYTONIX Grote

- 2400 **C. palliatricula** Gn. Mt. Marcy; Evans Center; Ithaca; Onteora Mt., *How*; Trenton Falls; De Bruce; Big Ind. Val.; Schenectady; Rhinebeck; Poughkeepsie; West Pt. (Ds); **SI**; **LI**: Central Pk. and Riverhead, Aug (Ds). The rather commoner var. *iaspis* Gn. does not figure in published records, but has been seen from Peru; N. Creek; Buffalo; Rock City; Ithaca; Big Ind. Val.; **LI**: Pine Haven. May-Jl.
- 2401 **C. sensilis** Grt. **LI**: Riverhead. Early Aug.
- 2399 **C. chlorostigma** Harv. (*viridimusca* Sm.). Poughkeepsie.

## FAGITANA Walker

- 2396 *F. littera* Gn. Adirondacks; Poughkeepsie; Rye.

## CALLOPISTRIA Hübner

(*Eriopus*)

- 2392 *C. monetifera* Gn. Plattsburg; Peru; Fentons; Newcomb; Evans; Buffalo; E. Aurora; Ithaca; Liberty; Onteora Mt., *How*; Lestershire; Utica; Karner; Poughkeepsie; Bronxville; **SI**; **LI**: Forest Pk., *Kch*; Wading R. (Bird). Je-Jl. Larva on ferns.
- 2391 *C. mollissima* Gn. Peru; Fentons; Evans Center; Lancaster; E. Aurora; Salamanca; Ithaca; Liberty; De Bruce; Trenton Falls; Karner; Poughkeepsie; Rye; **SI**; **LI** (Ds). Larva on ferns. May-Jl.

## CONSERVULA Grote

- 2386 *C. anodonta* Gn. Sharon Sps. Jl-Aug.

## CHUTAPHA Moore

(*Trigonophora*)

- 2385 *C. periculosa* Gn. General, the var. *v-brunneum* Grt. from: Fentons; Buffalo; E. Aurora; Ithaca; McLean; Karner; **LI**: Woodhaven, Yaphank. Jl-early Sep. Food general, larva probably a cutworm.

## BROTOLOMIA Lederer

- 2384 *B. iris* Gn. Plattsburg; Peru; Fentons; Clayton; Geneva; Evans Center; Lancaster; E. Aurora; Buffalo; Ithaca; McLean; Binghamton; Onteora Mt., *How*; Stony Clove; Big Ind. Val.; Utica; Schenectady; Albany; Rye; Van Cort. Pk. (Wat); **SI**; **LI**: Woodhaven. Je-Aug. Larva a cutworm (Wehrle).

## LUPERINA Boisduval

(*Hadena*)

- 2380 *L. passer* Gn. General and common northward, including E. Aurora; Poughkeepsie; Big Ind. Val.; Katonah; **SI**. Var. *conspicua* Morr. is from: Peru; Ithaca. Je-Jl, stragglers to Sep. Larva bores in root of *Rumex obtusifolius* (Bird).
- 2375 *L. trigona* Sm. Albany.
- 2369 *L. burgessi* Morr. **LI**: Brooklyn; E. New York; Jamaica. Sep-Oct.

## SIDEMIA Staudinger

(*Hadena*)

- 2367 *S. devastatrix* Brace. GLASSY CUTWORM. A dominant species everywhere. The contrasty form *speciosa* Morr. is much rarer, but apparently general. Jl-early Sep. A cutworm.

## MACRONOCTUA Grote

- 2365 **M. onusta** Grt. IRIS BORER. Lancaster; Ithaca; Saratoga; Ballston (Weigel); Schenectady (Cy); Albany (NYS); Catskills (NYS); Troy (Leon); Rye; Mt. Vernon (Weigel); **LI**: Brooklyn (Weigel). Sep. Bores in Iris, sometimes being injurious; also in *Gemmingia chinensis*.

## TAENIOSEA Grote

(Parastichtis)

- 2364 **T. discivaria** Wlk. Plattsburg; Fentons; Evans Center; Lancaster; Catskills; Newport; Sharon; Saratoga; Schenectady; Albany. Form *perbellis* Grt. has been taken at: Plattsburg; Fentons; Evans Center; Otto; Schenectady; Karner. J1-Aug.

## EREMOBIA Stephens

(Hadena)

- 2359 **E. claudens** Wlk. (*leucoscelis* Grt., *hillii* Grt.). Essex Co; Fentons; McLean; Sharon. Late J1-Aug.

## AGROPERINA Hampson

(Hadena)

- 2346 **A. lateritia** Hbn. Peru; Fentons. A cutworm.  
 2344 **A. dubitans** Wlk. General to Orient, **LI**. J1-Sep.  
 2357 **A. helva** Grt. Essex Co; Rochester; Honeoye Falls; E. Aurora; Ithaca; McLean; Oneonta; Schenectady; Rye; NYC; **SI**; **LI**: Brooklyn; Yaphank (Eng). Aug-early Sep.  
 2356 **A. lutosa** Andrews. Ithaca; Little Falls; Big Ind. Val.; Schenectady; Katonah; **LI**. J1. An obscure species which will probably prove commoner than here appears.

## OLIGIA Hübner

(Hadena)

- 2333 **O. bridghami** G. & R. Rye; **LI**: Aqueduct. Aug.  
 2335 **O. vulgivaga** Morr. (*semicana* Sm. not Wlk.). LINED CORN BORER. Adirondacks; Hamburg (*Wild*); Ithaca; Rye; **LI**: Brooklyn; Newtown. Aug.  
 2337 The dark var. *misera* Grt. has been taken on **LI**: Wading River. Var. *fractilinea* Grt. is from: Saranac L.; Lancaster; Skaneateles; Ithaca; Binghamton (NYS); Stone Ridge (NYS); Sharon; Glen; Argyle; Schenectady; Karner; Albany; Eagle Bridge; Old Chatham; Poughkeepsie; Rockland; **SI**; **LI**: Orient, *Lath* (NYS). J1-Aug. Corn and coarse grasses; a minor pest on young corn.  
 2338 **O. minuscula** Morr. Fentons. Aug.  
 2340 **O. hausta** Grt. "NY", Sep (Sm.). Should this be referred to *exhausta*?  
 2341 **O. exhausta** Sm. Schenectady (types); Rhinebeck; New Windsor; Katonah. Sep.



- 2342a *O. tonsa subjuncta* Sm. Allegany Pk., Aug (*Wild*).  
 2339 *O. diversicolor* Morr. Ithaca (Fbs); Covert, *Bdy*; Rye (*Bird*). Sep-early Oct. Larva in *Scirpus cyperinus* (*Bird*).  
 2343 *O. includens* Wlk. Buffalo; New Windsor; Rye. Larva in *Carex stricta* (*Bird*).

## PERIGEA Guenée

- 2323 *P. xanthioides* Gn. Rhinebeck; New Windsor; Rye; Katonah; Bronxville; **SI**. May-Sep.  
 2327 *P. vecors* Gn. Rochester; Evans Center; Lancaster; Ithaca; Onteora Mt., *How*; Schenectady; New Windsor; Rye; **SI**; **LI**: Newtown. May; Aug.  
 2324 *P. epopea* Cr. Rye; **SI**; **LI**: Woodhaven. Jl-Sep.  
 2330 *P. sutor* Gn. **SI**; **LI**: Woodhaven; Newtown; Yaphank; Orient (*Angle*). Aug-Oct.

## EUPLEXIA Stephens

- 2317 *E. lucipara* L. Generally distributed. May-Sep. A climbing cutworm.

## TRACHEA Hübner

(*Hadena*)

- 2271 *T. delicata* Grt. Evans Center; Buffalo; Ithaca; Schenectady; Poughkeepsie; Florida; Durlandville; Pine I. (Ds); **LI**: Brooklyn (*Doll*). Je-Aug.  
 2275 *T. inordinata* Morr. **LI**: Lynbrook; Central Pk.; Babylon. Je.  
 2286 *T. mactata* Gn. Keene Val.; Fentons; Lancaster; E. Aurora, Boston (*Wild*); Ithaca; Ulster Co; Trenton Falls; Schenectady; Albany; Bangall; Storm King; De Bruce and Oliveria (Ds); **LI**: Jamaica (*Doll*). Sep-Oct.  
 2283 *T. turbulenta* Hbn. Albany; Rye; NYC; **SI**; **LI**: Brooklyn; Orient, *Lath* (NYS); Riverhead, Jl (Ds). Smilax.  
 2276 *T. miselioides* Gn. Evans Center; Buffalo; Lancaster; **SI**; **LI**: Newtown; Lynbrook; Orient (*Angle*). Jl-Sep. Smilax.  
 2285 *T. remissa indocilis* Wlk. A northern species. Mt. Marcy; Fentons; Evans Center; E. Aurora; Protection; Lancaster; Ithaca; Trenton Falls; Schenectady; Liberty; Big Ind. Val. Je-Jl. Grass.  
 2312 *T. enigma* Sm. McLean, Jl (CU).  
 2288 *T. separans* Grt.<sup>78</sup> Ithaca; Castile, Je, *Brad* (Fbs.).  
 2291 *T. finitima* Gn. Newcomb; Clayton; Lake Forest; Buffalo; E. Aurora; Rock City; Castile, *Brad*; Portageville (Ds); Ithaca; McLean; Big Ind. Val.; Schenectady; Albany; New Windsor; Rye; Florida; **LI**: Wading R.; Montauk Pt. May-Jl.  
 2315 *T. impulsa* Gn. Saranac L.; Mt. Marcy; Newcomb; Franklin Co; Fentons; Clayton; Evans Center; Buffalo; Lancaster; Rock City; Castile, *Brad*; Ithaca; McLean; DeBruce; Liberty; Trenton Falls; Schenectady; **SI**; **LI** (*Doll*). Late Je-Jl.  
 2308 *T. modica* Gn. Not rare; general. Je-Aug.  
 2270 *T. illocata* Wlk. Fentons; Cascade L.; Karner; Ulster Co; **LI**: Yaphank.

<sup>78</sup> *T. lona* Strk., described from Clyde, is now considered the same as *runata* Sm., the western form of *separans*, with incorrect locality.

SEPTIS Hübner <sup>79</sup>

(Hadena)

- 2268 *S. arctica* Lef. YELLOW-HEADED CUTWORM. General; very common, especially northward. Late Je-Aug. A cutworm.
- 2246 *S. verbascoides* Gn. Newcomb; Fentons; Clayton; Evans Center; Buffalo; E. Aurora; Ithaca; De Bruce; Liberty; Big Ind. Val.; Onteora Mt., How; Trenton Falls; Ilion; Schenectady; Rye; **SI**; **LI**: Woodhaven (Doll). Je-Aug.
- 2247 *S. nigrior* Sm. Rock City (Ds); Ithaca; McLean; Evans Center; E. Aurora (*Wild*); Schenectady; E. New York. Late May-early Aug.
- 2248 *S. cariosa* Gn. Lancaster; E. Aurora (*Wild*); Ithaca; Trenton Falls; Schenectady; **LI**: Jamaica; Orient (Angle).
- 2251 *S. vulgaris* G. & R. Evans Center; Buffalo (type); Lancaster; Rock City; Ithaca; De Bruce; Schenectady; New Windsor; Ramapo Mts.; **LI**: Woodhaven. Je-Jl.
- 2250 *S. cristata* Grt. Evans Center; Buffalo.
- 2253 *S. lignicolor* Gn. General and not rare. Je-Jl.
- 2269 *S. suffusca* Morr. (*alia* Gn.). Peru; North Creek; Batavia; Buffalo (*Wild*); E. Aurora, *Wild*; Lancaster; Ithaca; Liberty; Schenectady; Albany; Katonah. Je-Jl.
- 2269a *S. rorulenta* Sm. Peru; Franklin Co; Otto; Ithaca; Sharon; Albany. Jl.
- 2260 *S. vultuosa* Grt. Mt. Marcy; Fentons; Evans Center; Buffalo; E. Aurora; Lancaster; Castile, *Brad*; Ithaca; McLean; Trenton Falls; Schenectady; Albany. Je-early Jl.
- 2262 *S. apamiformis* Gn. Fentons; E. Aurora (*Wild*); Clayton; Schenectady. May-Aug. A cutworm.

## DIPTERYGIA Stephens

- 2243 *D. scabriuscula* L. Ithaca; Rogers Rock, L. George (*Jones*); Binghamton (NYS); New Russia (*Jones*); E. Aurora, Buffalo (*Wild*); Schenectady; Poughkeepsie; Rye; **SI**; **LI**: Lynbrook; Newtown; Greenport. Je-Sep. Rumex, Polygonum.

## MAGUSA Walker

- 2242 *M. orbifera* Wlk. (*dissidens* Felder). **SI**: Richmond Hill; **LI**. A stray from the Tropics. *Condalia ferrea*.

## PYROPHILA Hübner

(Amphipyra Ochsenheimer)

- 2241 *P. glabella* Morr. Ithaca. Aug-early Sep.
- 2239 *P. pyramidoides* Gn. COPPER UNDERWING. Fentons; Rochester (Angle); Castile, *Brad*; Hebron (Wls). General in the Mohawk Val., southward and westward. Aug-early Oct. Grape, maple, and various other plants. Aug-early Oct.

<sup>79</sup> The larvae of this genus are cutworms.

- 2240 **P. tragopoginis** L. Fentons; New Russia (*Jones*); Evans Center; Buffalo; E. Aurora; Lancaster; Seneca L.; Ithaca; Sharon; Schenectady; **LI**: Yaphank; Calverton (*Ds*). Jl-early Sep. A general feeder.

## SUBFAMILY CUCULLIINAE

**HOMOGLAEA** Morrison

- 2237 **H. hircina** Morr. Plattsburg; Saranac L.; Ithaca, May; Dutchess Co.

**XANTHIA** Hübner

- 2233 **X. lutea** Ström (*flavago* Fab.). Plattsburg; L. Placid; Fentons; Buffalo; Karner; Bangall. Willow, preferring the catkins.

**BRACHYCOSMIA** Hampson(*Anchocelis*)

- 2232 **B. digitalis** Grt. Buffalo. Oct.

**IODIA** Hübner

- 2231 **I. rufago** Hbn. Rye; **SI**; **LI**: Central Pk.; West Hills (*Doll*); Bellmore; Massapequa; Yaphank. Ap-May. Willow.

**EUCIRRHOEDIA** Grote(*Atethmia*)

- 2230 **E. pampina** Gn. Wilmington; Fentons; Rochester; Buffalo; E. Aurora; Gowanda; Castile; Ithaca; Lestershire; Schenectady; Karner; Rye; **SI**; **LI**, general. Late Aug-Oct.

**PARASTICTIS** Hübner<sup>80</sup>(*Orthosia* Ochsenheimer in part, *Amathes*)

- 2224 **P. ralla** G. & R. New Russia; Fentons; Trenton Falls; Seneca L.; Ithaca; McLean; Big Ind. Val.; Bangall. End of Aug-Sep.

- 2220 **P. bicolorago** Gn. E. Aurora (*Wild*). The var. *ferruginoides* Gn. is common and general; the type form occurs at: Lewis Co; Rochester (*Angle*); Ithaca; Karner; **LI**: Yaphank. Sep-early Nov.

- [2226 *P. inops* Grt. (*Caradrina insipida* Strk.), described from Me., and Wis., should occur in the State. Je.]

- 2225 **P. puta** G. & R. (*europa* G. & R.). Wilmington; L. Placid; Fentons; Buffalo; E. Aurora (*Wild*), Sep 20, 1882; Ithaca; McLean; Trenton Falls; Sharon; Karner. Late Jl-Sep.

<sup>80</sup> *P. americana* Morr., described from New York, was a European species with incorrect locality.

## CONISTRA Hübner

*(Scopelosoma* Curtis, *Glaea*)

- 2216 *C. indirecta* Wlk.<sup>81</sup> (*moffatiana* Grt.). Franklin Co; Spier Falls; Lancaster; E. Aurora; Ithaca; Big Ind. Val.; Albany; Ramapo (Ds); NYC; **SI**; **LI**: Central Pk.; Yaphank. Oct-early May. Hamamelis.
- 2217 *C. pettiti* Grt. Saranac L.; Ithaca. Sep-late Ap.
- 2218 *C. ceromatica* Grt. Lancaster; Karner. Mar-Apr. Hamamelis.
- 2212 *C. tristigmata* Grt. Fentons; Cranberry L.; Geneva; Buffalo; Castile, Brad; Ithaca (Eyer, Fbs); McLean (seen); Newport; Oneonta; Karner; Albany; **LI**: West Hills, Jamaica (Ds). May. General on trees.
- 2213.1 *C. walkeri* Grt. Peru; Saranac L.; Geneva; Rochester; Lancaster; Buffalo; Ithaca; Albany; Rye; Fordham; **SI**; **LI**: West Hills (Ds). Ap-early May.
- 2213 *C. sidus* Gn. Karner; Rye; **SI**; **LI**: West Hills (Ds). Var. *vinulenta* Grt. is reported from Karner and Lancaster. Oct-spring.
- 2214 *C. morrisoni* Grt. Peru; Saranac L.; Geneva; Rochester; Kendall; Buffalo; Lancaster; Ithaca; Saratoga; Karner; Albany; Rye; **SI**; **LI**: West Hills (Ds). Oct-May.
- 2215 *C. devia* Grt. Saranac L.; Geneva; Lancaster; Buffalo, Hamburg (Wild); Ithaca; Big Ind. Val.; Albany; Dutchess Co; Rye; **SI**; **LI**: Brooklyn; Jamaica. Mar-May.
- 2210 *C. viatica* Grt. Karner; **SI**; **LI**: Yaphank. Sep. Oak, etc.
- 2209 *C. inulta* Grt. Fentons; Ithaca; Karner; Albany; **SI**; **LI**: Yaphank. Sep-Oct. Viburnum.

## PSECTRAGLAEA Hampson

- 2208 *P. carnosa* Grt. **LI**: Central Pk.; Yaphank. Late Sep-Oct.

## EPIGLAEA Grote

- 2207 *E. apiata* Grt. Saranac L.; McLean; Karner; **LI**: Yaphank. Sep-Oct.
- 2206 *E. decliva* Grt. Karner; Lancaster; Rye.

## HARPAGLAEA Hampson

*(Glaea)*

- 2203 *H. sericea* Morr. E. Aurora (*Wild*); Karner; **SI**; **LI**: Yaphank. Oct. The similarity between forms of this species and the next makes published records untrustworthy.
- 2205 *H. pastillicans* Morr. Karner (normal); **LI**: Yaphank (var. *tremula* Harv.). Oct.

<sup>81</sup> This name is applied to pale or faded spring specimens of the same species as *moffatiana*, and also to an apparently undescribed paler species (possibly *graeana* Grt.). I cannot sort out the records. (Fbs.)

**EUMICHTIS** Hübner*(Hadena)*

- 2187 **E. ducta** Grt. Franklin Co; Saranac L.; Farnham and E. Aurora (*Wild*); Buffalo. (The last record should be verified.) Aug-Sep.  
 2188 **E. versuta** Sm. "NY" (Wolley-Dod); E. Aurora, May (*Wild*); (Je in Alberta). Probably a cutworm. Elm and beech.

**EUROTYPE** Hampson

- 2178 **E. medialis** Grt. Schenectady (type).

**XYLOTYPE** Hampson

- 2177 **X. capax** G. & R. Fentons; Big Ind. Val.; **LI**: pine barrens (Eng). Oct.

**XYLENA** Ochseneheimer*(Calocampa* Stephens)

- 2169 **X. nupera** Lint. Fentons; Buffalo; E. Aurora (*Wild*); Ithaca; Schoharie; Karner; Albany; **LI**: Yaphank. Sep-May.  
 2174 **X. thoracica** Putn-Cr. Saranac L. (McKnight). The type was from "NY".  
 2173 **X. cineritia** Grt. Saranac L.; Lancaster; Karner; **LI**: Massapequa; Yaphank; West Hills (Ds). Early spring. Willow.  
 2171 **X. curvimacula** Morr. Plattsburg; Saranac L.; Buffalo; E. Aurora (*Wild*); Ithaca; McLean; Gloversville; Karner; Rye; Ramapo; **SI**; **LI**: West Hills (Ds). Sep-May. Cutworm.

**GRAPTOLITHA** Hübner <sup>82</sup>*(Xylina* Ochseneheimer, in part; *Lithophane* Hübner)

- 2136 **G. disposita** Morr. Fentons; Jamestown; Buffalo; Schenectady; Karner; Albany; Rye. Sep.  
 2138 **G. petulca** Grt. Plattsburg; L. Placid; Fentons; Lancaster; Schenectady; Karner; Albany; **LI**: Yaphank.  
 2134 **G. hemina** Grt. Lewis Co (Grt). Sep-Je.  
 2132 **G. patefacta** Wlk. Lewis Co; Monroe Co; Ithaca; Karner. Ap.  
 2153 **G. antennata** Wlk. GREEN FRUIT-WORM. Holley; Karner; Schenectady; Albany; NYC; **SI**; **LI**: Brooklyn to Yaphank. Oct-May. A green fruit-worm of apple, rarer than the following or than *G. insciens*.  
 2154 **G. cinerosa** Grt. (*laticinerea* Grt., *grotei* Rly.). GREEN FRUIT-WORM. Elma; Buffalo; E. Aurora; Geneva; Ithaca; Kingston; Schenectady; Karner; New Windsor; Rye; **SI**; **LI**: Brooklyn; Bellport; West Hills; Yaphank. Oct-early May. Apple, pear, and maple.  
 2137 **G. ferrealis** Grt. Fentons; Rochester; Lancaster; Ithaca; Catskills; Schenectady; Karner; Inwood; **LI**: Yaphank. Sep-May.

<sup>82</sup>All these species of *Graptolitha* emerge in late fall, overwinter, and reappear in the spring.



- 2139 *G. signosa* Wlk. (*petulca* Grt.). Ithaca; Karner; Saratoga; **LI**: Yaphank (Eng). Ap.  
 2133 *G. innominata* Sm. Lewis Co; E. Aurora (*Wild*); McLean; Catskills; Karner. Sep-May.  
 2141 *G. amanda* Sm. Karner.  
 2131 *G. bethunei* G. & R. Common and general. Sep-May.  
 2130 *G. semiusta* Grt. Ithaca, *Benjamin* (Fbs); Sharon; Karner. Ap.  
 2156 *G. fagina* Morr. Saranac L.; Karner; Albany; **LI**: Yaphank.  
 2155 *G. georgii* Grt. Cascade L.; Fentons; Essex Co; Lancaster; Albany; Ulster Co (Nic).  
 2146 *G. viridipallens* Grt. "**LI**", Aug, *Doll* (Sm.).  
 2150 *G. unimoda* Lint. Loon L.; Fentons; Lancaster; E. Aurora, Sep (*Wild*); Karner; **LI**: Yaphank.  
 2160 *G. tepida* Grt. Fentons; Big Ind. Val.; Karner; Albany.  
 2144 *G. baileyi* Grt. Cascade L.; Fentons; Cranberry L., *Htly* (Dy); Buffalo; Lancaster; Karner; Albany; Olivera (Ds). Sep-Apr.  
 2158 *G. nigrescens* Engel. Near Albany.  
 2149 *G. querquera* Grt. Karner.  
 2167 *G. lepida* Lint. Karner.  
 2168 *G. lamda thaxteri* Grt. Saranac L.; Karner; Albany; **LI**: Yaphank (Eng). Oct. Myrica (typical *lamda*).  
 2163 *G. pexata* Grt. Fentons; Lancaster; Buffalo (*Wild*); Schenectady; Karner; Albany; Rye; **LI**: Yaphank. Oct. Probably alder.

## LITHOMOIA Hübner

- 2129 *L. solidaginis germana* Morr. Cascade L.; Fentons; Lancaster; McLean; Karner; Albany. Sep. Vaccinium.

## HILLIA Grote

- 2127 *H. crasis* H-S. Fentons.  
 2126 *H. algens* Grt. Fentons; Catskills (Pears).  
 2125 *H. discinigra* Wlk. Karner.

## LITHOLOMIA Grote

- 2124 *L. napaea* Morr. L. Placid; Fentons; **LI**: Yaphank. Ap-May.

## COPIPANOLIS Grote

- 2112 *C. cubilis* Grt. Ithaca; **LI**: L. Ronkonkoma; Central Pk.; Bellmore; Massapequa (Ds). Mar-Apr.

## EUTOLYPE Grote

- 2110 *E. rolandi* Grt. Ithaca; **SI**; **LI**: Queens (Eng). Late Mar-Apr.  
 2109 *E. depilis* Grt. (*bombyciformis* Sm.). Ithaca. Ap. Both the type commonly called *bombyciformis*, and the gray variety which passes for *depilis*.  
 2108 *E. grandis* Sm. Ithaca, *Benjamin*. Mar-Apr.  
 2107 *E. electilis* Morr. (*Psaphidia*). Ithaca, Ap. 30, 1916, *Panoff* (CU). Ap.

## PSAPHIDIA Walker

- 2105 *P. grotei* Morr. Ithaca; Bronx; **SI**. The commonest of the group, at Ithaca. Ap-May.  
 2104 *P. resumens* Wlk. Ithaca; Bronx; **SI**; **LI**: Brooklyn; Central Pk. Ap-May.  
 2106 *P. thaxteriana* Grt. Ithaca; Rye; **LI**: Brookhaven. Mar-May. Oak.

## MOMOPHANA Grote

- 2098 *M. comstocki* Grt. Plattsburg; Saranac L.; Buffalo; E. Aurora (*Wild*); Portage; Ithaca (type); Big Ind. Val. May.

## FERALIA Grote

- 2096 *F. jocosa* Gn. Plattsburg; Fentons; West Seneca; Ithaca; Corinth; New Windsor; Ramapo; Bronx. Common locally. Ap. Hemlock.  
 2097 *F. major* Sm. Plattsburg; Saratoga; **LI**: Central Pk.; Massapequa. Ap-May.

## HOMOHADENA Grote

- 2080 *H. badistriga* Grt. Lewis Co; Lancaster; Ithaca; Schenectady; Albany. Lintner's record of *infixa* is undoubtedly based on the Lewis Co specimen. Je-Jl. Honeysuckle. Not a cutworm.

## ONCOCNEMIS Lederer

- 2034 *O. saundersiana* Grt. Bangall (Eng). Sep-Mar.  
 2046 *O. riparia* Morr. Evans Center; Buffalo; Locust Val.; **LI**: Northport; Glencove. Harvey's record of *chandleri* is undoubtedly based on this species (Erie Co).  
 2061 *O. piffardi* Wlk. (*atrifasciata* Morr.). Fentons; Long L.; **LI**. The last record should be verified.

CUCULLIA Schrank<sup>83</sup>

- 2005 *C. convexipennis* G. & R. Rather common throughout the State, the caterpillar being seen fully as often as the moth. Je-Aug.  
 2002 *C. postera* Gn. Mt. Marcy; Fentons; Ithaca, Jl, *Stedman*; Liberty; Sharon; Rhinebeck; Poughkeepsie; New Windsor; **LI**: Glendale, *Kch*.  
 2003 *C. asteroides* Gn. Common everywhere, the caterpillar often seen. Je-Jl 5; late Aug; late Sep.  
 1999 *C. florea* Gn. Ithaca; Newburgh; Trenton Falls; Sharon; Ulster Co; Poughkeepsie. May-early Jl.  
 1993 *C. laetifica* Lint. "NY" (Graef). I have seen the specimen; is it mislabeled? (Fbs).  
 1992 *C. speyeri* Lint. Rochester, *Angle*; Buffalo (*Wild*); Lestershire; Albany; New Windsor; **LI**: Woodhaven; Pinehaven. Jl.  
 1997 *C. intermedia* Speyer. General southward to Rochester, *Angle*; E. Aurora, the Catskills, and Albany. End of May-early Je; late Jl-early Sep.

<sup>83</sup> The larvae in this genus are general feeders, usually on flowers.

## SUBFAMILY HADENINAE

(Mamestrinae)

## LEUCANIA Ochsenheimer

(Heliophila Hübner)

- 1972 *L. pallens luteopallens* Sm. Common throughout the State. Late May-Sep. Grass.

## NELEUCANIA Smith

(Leucania, Heliophila)

- 1959 *N. albilinea* auct. I have seen but one dark specimen from the State such as those which Smith considered typical of *albilinea*, from Yorktown. Specimens with dark hind wings have been seen from: Peru; Clayton; Albany; New Windsor; **SI**; **LI**: Brooklyn. They are probably merely a variety of the next species. May-early Je; J1-Aug. Grass.
- 1959a *N. diffusa* Wlk. WHEAT-HEAD ARMY WORM. Has been seen from: Wad-dington; Perry; E. Aurora; Gowanda; Ithaca; Sharon; Albany; New Windsor; Katonah; **SI**; **LI**: Amagansett; Orient, *Lath.* Will probably prove common wherever looked for. May-early Je; J1-Aug. Grass.

## BOROLIA Moore

(Leucania, Heliophila)

- 1955 *B. flabilis* Grt. **LI**: Glen Cove. J1-Sep.
- 1957 *B. linita* Gn. (*extincta* Sm., not Gn.). "NY". May, J1-Aug. A coastal species.

CIRPHIS Walker<sup>84</sup>

(Leucania, Heliophila)

- 1950 *C. unipuncta* Haw. ARMY WORM. Very common everywhere. Throughout the entire season.
- 1933 *C. pseudargyria* Gn. Common from the Adirondacks to Buffalo and **LI**. Je-Sep, with stragglers till Nov; two broods, the second dwarfed.
- 1941 *C. insueta* Gn. General, but less common than other species. May; J1-Aug.
- 1934 *C. multilinea* Wlk. Peru; Fentons; Honeoye Falls; E. Aurora; Buffalo; Rock City; Ithaca; Schenectady; Karner; Albany; Cropseyville; Rhinebeck; Poughkeepsie; Katonah; **SI**; **LI**; Amagansett. Je-Sep.
- 1935 *C. commoides* Gn. Plattsburg; Newcomb; N. Creek; Essex Co; Peru; Fentons; Clayton; Rochester; Lewiston; Buffalo; E. Aurora; Otto; Castile; Ithaca; Onteora Mt.; Liberty; DeBruce; Utica; Little Falls; Sharon; Schenectady; Karner; Albany; Rhinebeck; Poughkeepsie; Katonah. Je-Sep.
- 1936 *C. phragmatidicola* Gn. General throughout the State; easily confused with *C. multilinea*. May-early Oct.

<sup>84</sup> The larvae in this genus are cutworms feeding normally on grasses, and become army worms only when abundant.

## XANTHOPASTIS Hübner

*(Euthisanotia)*

- 1931 **X. timais regnatrrix** Grt. West Farms (Angus); **SI**. A stray from the Tropics. Lily.

## CERAMICA Guenée

- 1930 **C. picta** Harr. (*Mamestra*). ZEBRA CATERPILLAR. Common everywhere, Plattsburg to Buffalo and **LI**. The larva is much more often seen than the moth. May-Je; Aug-Sep. A general feeder on herbs.

## SIDERIDIS Hübner

*(Crocigrapha Grote)*

- 1927 **S. normani** Grt. Plattsburg; Lancaster; Buffalo; Evans Center; Rock City; Ithaca; McLean; Karner; Dutchess Co; New Windsor; Fordham; **SI**; **LI**: Jamaica. End of Ap-early Je. *Caulophyllum thalictroides*.  
 1926 **S. rosea** Harv. Peru; Buffalo; E. Aurora; McLean (Fbs); Lancaster; Big Ind. Val.; Oneonta; Karner; **SI**; **LI**: Pinelawn. May-Je; Aug.  
 1928 **S. congermana** Morr. Karner; **SI**: Richmond; "**LI**". May-Aug.  
 1929 **S. rubefacta** Morr. Karner; Albany. Je-Oct. A general feeder. A cutworm?

## ORTHOSIA Ochsenheimer

*(Taeniocampa auct., Monima Hübner)*

- 1917 **O. revicta** Morr. (*subterminata* Sm.). Plattsburg; Saranac L.; Ithaca; Karner; **LI**: Central Pk. Ap.  
 1919 **O. hibisci** Gn. (*insciens* Wlk., *Xylina laticinerea* Slingerland, in error for larvae and pupae). General; the form *hibisci* from Buffalo (Wild) and **LI**. Ap-May. A common "green fruit-worm" on apple.  
 1918 **O. alurina** Sm. Ithaca (two specimens). Ap.  
 1910 **O. rubescens** Wlk. E. Aurora; Ithaca; New Windsor; **LI**: Central Pk. Ap-May.  
 1915 **O. garmani** Grt. **LI**: Brooklyn; Hempstead Plain. Ap-Je.

## XYLOMIGES Guenée

- 1887 **X. dolosa** Grt. Plattsburg; Ithaca; Ilion. Ap-May.  
 1893 **X. alternans** Wlk. (*tabulata* Grt.). Fentons; Karner.

## MORRISONIA Grote

- 1877 **M. evicta** Grt. (*sectilis* auct.). General. Var. *vomerina* Grt. is general with the type, and seen or reported from L. Placid; Saranac L.; Lancaster; E. Aurora; Ithaca; Oneonta; Karner; Albany; Nassau; **LI**. Ap-May.  
 1873 **M. mucens** Hbn. **LI**: Yaphank, Eng (Fbs). Mar-early Ap.  
 1878 **M. confusa** Hbn. Lancaster; Ithaca; McLean; Albany and vic.; New Windsor; Bronxville; **SI**; **LI**: Oyster Bay; Yaphank. Ap-early Je. Willow, etc., in a web.

## NEPHELODES Guenée

- 1866 *N. minians* Gn. BRONZED CUTWORM. General; a common cutworm. J1-Sep.

## ERIOPYGA Guenée

(*Taeniocampa*; *Orthodes* Guenée)

- 1838 *E. crenulata* Butl. Plattsburg; Essex Co; Newcomb; Fentons; Clayton; Buffalo; Ithaca; Schenectady; Albany; Poughkeepsie; New Windsor; NYC; **SI**; **LI**: Brooklyn. Je-Aug.
- 1839 *E. cynica* Gn. Plattsburg; Peru; Mt. Marcy; Newcomb; Fentons; Clayton; Evans Center; Buffalo; E. Aurora; Otto; Rock City; Allegany Pk.; McLean; Ithaca; Onteora Mt.; Trenton Falls; Schenectady; Poughkeepsie; Katonah; Nyack (Ds); **SI**; **LI**: Brooklyn; Lynbrook. End of May-Aug; two broods. A cutworm.
- 1842 *E. vecors* Gn. Peru; Newcomb; Buffalo; Ithaca; Onteora Mt.; Stony Clove; Albany; Poughkeepsie; New Windsor; Rye; Bronxville; **SI**; **LI**: Orient (Angle). An obscure species, apparently common wherever looked for. Var. *prodeuns* Wlk. is probably general with the normal form, but the only record before me is Ithaca. May; J1; Sep; three broods, the second one large. A cutworm.
- 1843 *E. calceolaria* Strk. The types from **LI** are apparently a large race of the preceding species.
- 1851 *E. contrahens* Wlk. Jay; Saranac L. Je-Oct.
- 1840 *E. intractata* Morr. Albany; **SI**; **LI**: Jamaica; Queens (*Bell* and *Eng*); Hempstead Plain. Ap-May.
- 1821 *E. oviduca* Gn. Peru; Fentons; Clayton; Evans Center; Lancaster; Castile, Je, *Brad* (Fbs); E. Aurora; Rock City; Ithaca; McLean; Liberty; Stony Clove; Trenton Falls; Schenectady; Karner; Albany; **SI**; **LI**: Jamaica (Doll). Generally common, but obscure. Ap-Sep; two broods. A cutworm.
- 1858 *E. furfurata* Grt. Peru; Honeoye Falls; Ithaca; McLean; Albany. J1-Aug.
- 1858 *E. peredia* Grt. Saranac L. (McKnight); Minnewaska. Probably a variety of *E. furfurata*.
- 1835 *E. culea* Gn. **LI**: Coram (*Eng*). May-Aug.

## HYSSIA Guenée

(*Ulolonche* Smith)

- 1807 *H. modesta* Morr. Evans Center; Karner; Saratoga; **LI**: Yaphank (*Bell* and *Eng*). May-Je.

## CHABUATA Walker

(*Tricholita* Grote)

- 1798 *C. signata* Wlk. Peru; Essex Co; Moravia; Ithaca; McLean; Onteora Mt.; Pine Hill, Catskills; Rye (*Bird*); **SI**; **LI**: Woodhaven. J1-Sep. General on herbs.



## TRICHOCLEA Grote

- 1791 *T. artesta* Sm. Sodus Pt.

## EPIA Hübner

- 1780 *E. capsularis* Gn. "NYC and vic." (Bt).

POLIA Ochsenheimer<sup>85</sup>(*Mamestra* Ochsenheimer)

- 1696 *P. nimbosa* Gn. Plattsburg; Peru; Fentons; Kendall; Buffalo; Ithaca; Ulster Co; Onteora Mt.; Trenton Falls; Utica; Sharon; Schenectady; **LI**: Jamaica. Nowhere common. Jl.
- 1661 *P. imbrifera* Gn. DeBruce to Onteora Mt. and north and west, becoming rather common northward. Jl-Aug.
- 1655 *P. purpurissata* Grt. General and not rare. Aug. A cutworm.
- 1673 *P. meditata* Grt. Keene Val.; Fentons; Rochester; Honeoye Falls; Buffalo; E. Aurora; Potter Swamp; McLean; Ithaca; Onteora Mt.; Schenectady; Rye; **SI**; **LI**: Bellmore; Yaphank. Common wherever looked for. Aug-early Sep.
- 1657 *P. lustralis* Grt. Peru; Fentons; Big Ind. Val. Late Je-early Jl.
- 1659 *P. detracta* Wlk. Lewis Co; Newcomb; Buffalo; Evans Center; Lancaster; Otto; Gowanda; Ithaca; McLean; Trenton Falls; Sharon; Albany; Ft. Montgomery (Ds); **SI**; **LI**: Lynbrook; Yaphank. Je-Jl. A cutworm.
- 1670 *P. distincta* Hbn. Brockport; Ithaca; Balmville; NYC; **SI**; **LI**: Jamaica; Woodhaven. Late Ap-May. Larva on grape.
- 1710 *P. atlantica* Grt. Plattsburg; Peru; Fentons; Clayton; Buffalo; Oneonta; Schenectady; Albany. Jl-Aug.
- 1712 *P. radix* Wlk. Buffalo, *EPV*. Je. A cutworm.
- 1686 *P. subjuncta* G. & R. SPECKLED CUTWORM. Rochester; E. Aurora; Otto; Ithaca; Binghamton; Schenectady; Karner; Albany; New Windsor; Rye; **SI**; **LI**: Brooklyn (Doll). May-Sep. A cutworm.
- 1685 *P. grandis* Bdv. Peru; Evans Center; Lancaster; Buffalo; Rock City; Ithaca; McLean; Big Ind. Val.; Trenton Falls; Karner; Albany; Poughkeepsie; Katonah; **SI** (Ds); **LI**: Jamaica; Lynbrook. Je-Aug. A cutworm.
- 1693 *P. cristifera* Wlk. (typical). Peru, *Mix and Everett*.
- 1693 *P. cristifera lubens* Grt. Plattsburg; Peru, *Mix and Everett*; Franklin Co; Fentons; Buffalo; Binghamton; Albany; Katonah; **SI** (Ds); **LI**: Yaphank (Eng). Apparently rare southward. Jl-early Aug. Huckleberry, sumac, and birch.
- 1723 *P. assimilis* Morr. Plattsburg; Peru; Newcomb; Fentons; Buffalo; Poughkeepsie; **LI**: Yaphank (Eng). Even more definitely northern than the last-named species. Jl. On bracken and other low plants.
- 1723a *P. pulverulenta* Sm. Uphill Brook, Mt. Marcy, Jl 6, 1918.

<sup>85</sup> The larvae in this genus are general feeders on herbs.

- 1695 *P. latex* Gn. Newcomb; Keene (*Wild*); Geneva; Evans Center; Buffalo; West Falls (*Wild*); Castile; Rock City; Randolph; Ithaca; Liberty; Big Ind. Val.; Oneonta; Schenectady; Rensselaer; New Windsor; Ramapo (Ds); **SI; LI:** Wyandanch (Eng). May-Jl. A cutworm.
- 1700 *P. adjuncta* Bdv. Mt. Marcy; Fentons; Geneva; Buffalo; E. Aurora (*Wild*); Otto; Ithaca; Sharon; Schenectady; Ontario Mt.; Albany; Rye; **SI; LI:** Brooklyn; Jamaica; Ft. Hamilton; Flushing (Ds). Ap-Aug; two broods. Not a cutworm, usually resting above the ground. Roman wormwood (*Wild*).
- [1709 *P. tacoma* Strk. Should occur in the State, as it is determined by Dod from Maine. It is probably confused with *lilacina*.]
- 1715 *P. legitima* Grt. STRIPED GARDEN CATERPILLAR. General in the State. Je-Aug. Not a cutworm.
- 1717 *P. lilacina* Harv. Peru; Newcomb; Fentons; Evans Center; Lancaster; Otto; Castile; Ithaca; Liberty; Oneonta; Poughkeepsie; Brewster. Jl-Sep.
- 1718 *P. goodellii* Grt. Essex Co; Newcomb; Fentons; North Creek; Lancaster; Allegany Pk.; Evans Center; McLean; Sharon; Schenectady; Katonah; **LI.** Jl-Aug. Apparently rare in the Appalachian highlands.
- 1720 *P. ectypa* Morr. Ontario Mt., *How*, Aug 7.
- 1750 *P. renigera* Steph. BRISTLY CUTWORM. General, often our commonest Polia. Late May-early Sep. A cutworm.
- 1755 *P. olivacea* Morr. Keene Val.; Cascade L.; Fentons; Oak Orchard Swamp; Lancaster; Ontario Mt.; Sharon; Schenectady; Albany; NYC; **LI.** Je; Aug-Sep. A cutworm.
- 1756 *P. laudabilis* Gn. New Russia, *Jones*; E. Aurora, Portage (*Wild*); Ithaca; **LI:** Jamaica. Jl-Oct. A cutworm.
- 1754 *P. lorea* Gn. Plattsburg; Peru; Mt. Marcy; Newcomb; Fentons; Clayton; Evans Center; Buffalo; Otto; Chautauqua (Ds); Ithaca; McLean; Catskills generally; Schenectady; Albany; Nassau; Rhinebeck; Rye; **SI; LI.** Late Je-Jl. A cutworm.
- 1732 *P. anguina* Grt. Rye; **SI; LI:** Central Pk.; Hempstead Plain; Massapequa. May-Jl.
- 1734 *P. vicina* Grt. Peru; Fentons; Evans Center; Buffalo; Ulster Co; Sharon. Jl.

## ANARTA Ochsenheimer

- 1633a *A. myrtilli acadiensis* Beth. "NY" (Gerhard). Probably on heath.

## SCOTOGRAMMA Smith

(*Mamestra*)

- 1615 *S. trifolii* Rott. CLOVER CUTWORM. Common all over the State. May-Je; Aug-Sep. The contrasty var. *albifusa* Wlk. is also general. A general feeder on herbs.

## BARATHRA Hübner

- 1607 *B. curialis* Sm. Saranac L.; Albany. A cutworm.

SUBFAMILY AGROTINAE<sup>86</sup>

## EUERETAGROTIS Smith

- 1597 *E. sigmoides* Gn. Plattsburg; Franklin Co; Evans Center; E. Aurora; Otto; Ithaca; McLean; Schenectady; Rye; **LI**: Great Neck. May; Jl-Aug. A cutworm.
- 1598 *E. perattenta* Grt. Peru; Mt. Marcy; Saranac Inn; Fentons; Newcomb; Evans Center; Buffalo; E. Aurora; DeBruce; McLean; Little Falls; Sharon; Schenectady; **SI**. Je-Jl.
- 1599 *E. attenta* Grt. Peru; Franklin Co; Saranac L.; Ithaca; Karner. Jl.

## CRYPTOCALA Benjamin

- 1596 *C. gilvipennis* Grt. (*Rhynchagrotis*). Plattsburg; Peru; Fentons; Ithaca (*Fbs*). Jl-Aug. Grass.

LAMPRA Hübner<sup>87</sup>(*Rhynchagrotis* Smith)

- 1565 *L. rufpectus* Morr. Essex Co; Fentons; Franklin Co; Buffalo (*Wild*); Lancaster; Ithaca; **LI**: Richmond Hill (Bj); Yaphank. Jl-Aug. Grass.
- 1566 *L. brunneicollis* Grt. Peru; Brant L. (Bj); Evans Center; Buffalo; Ithaca; Albany; Dutchess Co (Bj); Poughkeepsie; **SI**; **LI**: Floral Pk.; Flushing, Richmond Hill, Yaphank (Bj). Je-Jl.
- 1590 *L. cupida* Grt. **LI**: Yaphank (Bj).
- L. cupida* var. *brunneipennis* Grt. Carmel; NYC (Bj); **SI**, *Ds* (Bj); **LI**: Flatbush (Bj). Jl.
- 1593 *L. minimalis* Grt. Albany; Poughkeepsie.
- 1585 *L. placida* Grt. Fentons (type); Franklin Co (Bj); Rye (Bird); **LI**: Jamaica; Yaphank. The specimens seen lack the median shade.
- 1588 *L. alternata* Grt. Saranac L.; Buffalo; Salamanca; Ithaca (Bj); Onteora Mt.; Schenectady; Karner, *Hill* (Bj); Hudson (Bj); **SI**; **LI**: Forest Pk. Je-Oct. Oak, hickory, etc.

MATUTA Grote<sup>88</sup>(*Semiophora*)

- 1552 *M. elimata* Gn. Buffalo; Karner; Rye; **LI**: Yaphank. Sep.
- 1552c *M. janualis* Grt. Franklin Co; Ulster Co; Schenectady; Karner; Albany; **SI**, *Ds* (*Fbs*); **LI**: Yaphank (Eng). Now considered a good species. Late Aug-Sep.
- 1420 *M. opacifrons* Grt. Karner. Aug-Sep.
- 1553 *M. tenebrifera* Grt. Saranac L., *McKnight*; Ithaca; **LI**: Brooklyn. Ap-May.
- 1551 *M. youngii* Sm. Ulster Co, Aug. (red phase). A cutworm, injurious in Canada.

<sup>86</sup> The members of this subfamily to *Porosagrotis* inclusive, are cutworms; the remainder are feeders on flowers and seeds.

<sup>87</sup> In this very difficult genus, records verified by Mr. Benjamin are marked with (Bj). All others should be viewed with suspicion.

<sup>88</sup> *Mythimna oxalina* Hbn. of Europe has been reported from Sharon Sps., undoubtedly in error.

- 1560 **M. prasina** Fab. Keene Val.; Mt. Marcy and vic.; Fentons; Rochester; E. Aurora, Buffalo (Wild); Lancaster; Ithaca; Onteora Mt.; Olivera; Utica; Little Falls; Trenton Falls; Schenectady; Karner; Poughkeepsie; Rye; **SI; LI**: Woodhaven; Forest Pk., *Kch.* Je-Sep. A cutworm.

#### ANYTUS Grote

- 1533 **A. privatus** Wlk. Fentons; Buffalo; E. Aurora; Lancaster; Otto; Ithaca; Big Ind. Val.; Ilion; Schenectady; Karner; **SI; LI**. Many specimens are dark, approaching Smith's *obscurus* and *teltowa*. Jl-Sep.

#### UFEUS Grote

- 1522 **U. plicatus** Grt. Plattsburg (Dyar).  
1523 **U. satyricus** Grt. Big Ind. Val. (Pears).

#### APHARETRA Grote

- 1516 **A. dentata** Grt. Fentons.

#### APLECTOIDES Butler

(*Platagrotis* Smith)

- 1509 **A. pressa** Grt. Peru; Essex Co; Fentons; Ithaca; Karner; Buffalo; Utica. Jl-Aug.  
1505 **A. speciosa** Hbn. L. Tear, Jl 7, 1918. *Vaccinium* and grasses.  
1513 **A. condita** Gn. N. Elba Twp., near Indian Pass; Albany; Liberty.

#### ADITA Grote

- 1504 **A. chionanthi** S. & A. Fentons; Seneca; Ithaca. May; Aug. *Chionanthus*, *Triosteum perfoliatum*.

#### LYCOPHOTIA Hübner

(*Peridroma* Hübner)

- 1489 **L. occulta** L. Typically a northern species. Fentons; Buffalo; Schenectady; Big Ind. Val.; Rye; **SI; LI**: Amagansett. Je-Aug; Oct. A cutworm.  
1487 **L. stricta** Morr. A northern species. Mt. Whiteface; Saranac Inn; Fentons; Big Ind. Val. Aug.  
1490 **L. margaritosa** Haw. VARIEGATED CUTWORM. The type form and the var. *saucia* Hbn. are very common generally, northward to Albany and Ithaca. Aug-Nov. A cutworm.  
1495 **L. infecta** Ochs. (*incisus* Gn.). Rye; **SI; LI**: Brooklyn; Newtown; Yaphank. Grass.  
1502 **L. lubricans** Gn. Essex Co; Saranac L.; Adirondack Lodge; E. Aurora; Ithaca; New Windsor; **SI; LI**: Brooklyn. Late Je-Sep.

## EPISILIA Hübner

(*Pachnobia* Guenée; *Choëphora* Grote and Robinson)

- 1474 *E. salicarum* Wlk. Saratoga; Dutchess Co. Ap-May.  
 1473 *E. manifesta* Morr. Rye; **SI**; **LI**: E. New York; Woodhaven; Yaphank; Babylon. May.  
 1478 *E. fishii* Grt. **SI**, *Shoe*; **LI**: Yaphank. Ap.  
 1471 *E. fungorum* G. & R. Buffalo. Sep-Ap.

## ONYCHAGROTIS Hampson

- 1467 *O. rileyana* Morr. Lancaster; Buffalo. A cutworm.

## EUCOPTOCNEMIS Grote

- 1464 *E. fimbriaris* Gn. (*Porosagrotis tripars* Wlk.). **SI**; **LI**: Amagansett. Sep.

## AGROTIS Ochsenheimer

- 1415 *A. badinodis* Grt. Saranac L.; Ithaca; Rye; **SI**; **LI**: Brooklyn; Yaphank. Sep-Oct.  
 1419 *A. violaris* G. & R. Rye; **SI**; **LI**: Aqueduct; Woodhaven; Yaphank; Calverton. Sep-Oct.  
 1416 *A. geniculata* G. & R. Wilmington; Allegany Co; Ithaca; New Windsor; Fordham; **LI**: Bellmore; Amagansett; Glencove; Yaphank. Aug-Sep.  
 1422 *A. ypsilon* Rott. GREASY CUTWORM. Common everywhere. Je-early Jl; Aug-Nov. A cutworm.

## NOCTUA Linnaeus

- 1430 *N. baja smithii* Snell. Generally distributed. Aug-Sep. A cutworm.  
 1428 *N. normaniana* Grt. Plattsburg; Keene Val.; Fentons; N. Fair Haven; Otto; Ithaca; McLean; Onteora Mt.; Trenton Falls; Schenectady; Stamford (Ds); Rye (Ds); **SI**; **LI**: Brooklyn; Newtown. Aug-Sep. A cutworm.  
 1425 *N. bicarnea* Gn. General, commoner northward. Late Jl-Sep. A cutworm.  
 1426 *N. treatii* Grt. (*tenuicola* Morr. according to B. & B.). Adirondacks (Sm); **LI**: Forest Pk. (Doll). Late Jl-Aug.  
 1424 *N. c-nigrum* L. SPOTTED CUTWORM. Very common everywhere; an important species. Je-Oct.  
 1443 *N. jucunda* Wlk. (*hospitalis* Grt.). Peru; Franklin Co; Fentons; Clayton; Evans Center; Ithaca; McLean; Catskills; Karner; Poughkeepsie. Jl. Rare.  
 1444 *N. phyllophora* Grt. Fentons; Ithaca; Ulster Co; Karner; Albany; Poughkeepsie; Rye; **LI**: Lynbrook. Jl-Aug.  
 1438 *N. rubifera* Grt. Mt. Marcy; Franklin Co; Karner. Aug.



- 1447 *N. oblata* Morr. Fentons. Aug. A climbing cutworm on willow.  
 1446 *N. fennica* Tausch. BLACK-LINED CUTWORM. Plattsburg; Fentons; Trenton Falls; Newport. Sep. A cutworm injurious in Canada.  
 1450 *N. juncta* Grt. Cranberry L., *Htly.*  
 1434 *N. plecta* L. General to Brooklyn, common northward. May-Sep. A cutworm.  
 1423 *N. collaris* G. & R. Jay; Fentons; Clayton; E. Aurora (*Wild*); Seneca L.; Ithaca; North Branch; Newport; Rhinebeck; **LI**: Woodhaven. Je; Aug-Sep.  
 1458 *N. haruspica* Grt. Peru; Essex Co; Fentons; Clayton; Kendall; Lancaster; Buffalo; Castile, *Brad*; McLean (Fbs); Trenton Falls; Schenectady; Karner; Albany; Rhinebeck. Jl-Aug.  
 1461 *N. clandestina* Harr. (*unicolor* Wlk.). WELL-MARKED CUTWORM. Common everywhere, Peru to Buffalo and Gardiners I, **LI**. Je-Jl; Sep-early Oct. A cutworm.  
 1437 *N. cynica* Sm. Albany (Sm).

FELTIA Walker <sup>89</sup>

- 1402 *F. ducens* Wlk. (*subgothica* Sling. not Haw.). DINGY CUTWORM. Very common everywhere; one of the common cutworms. Aug-Sep.  
 1403 *F. jaculifera* Gn. DINGY CUTWORM. With the preceding species, and even more common. The var. *herilis* Grt. also is general, but is commoner northward. The form with pale hind wings is probably *subgothica* Haw., seen from: Ithaca; **LI**: Yaphank. Jl-Sep.  
 1395 *F. gladiaria* Morr. CLAY-BACKED CUTWORM. Rochester, *Angle*; Buffalo; Lancaster; Ithaca; Bangall; New Windsor; Rye; **SI**; **LI**: general (Eng). Sep-early Oct.  
 1397 *F. venerabilis* Wlk. Fentons; Buffalo; E. Aurora; Ithaca; McLean; Newport; Oneonta; Schenectady; Bangall; Rye; **SI**; **LI**: Woodhaven (Eng). Common southward. Sep-early Oct.  
 1409 *F. volubilis* Harv. Peru; Clayton; Buffalo; Castile, Je, *Brad* (Fbs); E. Aurora; Rock City; Ithaca; McLean; Oneonta; Schenectady; Karner; Albany; Rye; **LI**: Woodhaven. May-Je.  
 1413 *F. annexa* Tr. GRANULATED CUTWORM. Franklin Co (McKnight); Ilion; Schenectady; **SI**; **LI**: Brooklyn. Common in the Austral zone. Oct.  
 1414 *F. malefida* Gn. SHAGREENED CUTWORM. Essex Co; Brooklyn. Probably strays from the South.

## CHORIZAGROTIS Smith

- 1379 *C. thanatologia* Dyar. Peru, Jl 1-7, *Mix and Everett*.

EUXOA Hübner <sup>90</sup>

(*Paragrotis* Pratt; *Carneades* Grote)

- 1287 *E. perpolita* Morr. N. Fair Haven; Karner; DeBruce (Ds); Big Ind. Val.; Rye; **LI**: Aqueduct. Aug-Sep.

<sup>89</sup> The species in this genus are all cutworms, and most of them are abundant. The western *Rhizagrotis acclivis* Morr. was originally described from New York in error.

<sup>90</sup> So far as is known, all the species in this genus are cutworms.

- 1312 *E. fumalis* Grt. Essex Co; Rochester, *Angle*; Ithaca; Sharon; Schenectady; Albany. Originally described from NY. Late J1-Aug.
- 1286 *E. punctigera* Wlk. "NY" (Hampson). In error for another black form?
- 1291 *E. velleripennis* Grt. Saranac L.; E. Aurora (*Wild*); Ithaca; Schenectady; New Windsor; **LI**: Coram (Eng). Late Aug-Sep.
- 1486 *E. scandens* Rly. WHITE CUTWORM. Plattsburg; Peru; Essex Co; North Creek; Franklin Co; Little Falls; Evans Center; Schenectady; Albany. J1. A cutworm, sometimes climbing.
- 1272 *E. detersa* Wlk. (*pitychrous* Grt.). Plattsburg; Peru; Fentons; Buffalo; Schenectady; Karner; Albany; **SI**; general on **LI**. This species favors sandy country. Late Aug-Oct.
- 1272b *E. azif* Strk. "NY." Another Strecker name, considered by B. & McD. a variety of *detersa*.
- 1318 *E. bostoniensis* Grt. Rochester, *Angle*; Buffalo; Ithaca; Karner; **SI**; **LI**: Wyandach, *Scheveyer* (Eng). Sep-Oct.
- 1304 *E. messoria* Harr. DARK-SIDED CUTWORM. This and the following four species are not certainly determinable without dissection, and the records are therefore tentative. Typical *messoria* is generally common, and an important cutworm. J1-Sep.
- 1336 *E. pleuritica* Grt. "NY", type.
- 1304 *E. friabilis* Grt. Fentons, *Hill* (Lint).
- 1338 *E. decolor* Morr. (*insulsa* auct., *verticalis* Grt.). Karner; Schenectady; **LI**: Brooklyn.
- 1341 *E. albipennis* Grt. Fentons; Karner; **LI**: Newtown.
- 1329 *E. tessellata* Harr. STRIPED CUTWORM. Common everywhere; usually recognizable by the yellow shoulders. Je-early Sep.
- 1363 *E. ochrogaster* Gn. RED-BACKED CUTWORM. Peru; Saranac L.; Fentons; Saratoga; **LI**: Mineola (NYS). This species is extremely variable and I have seen most of its forms from the State. Aug-Sep.
- 1356 *E. obeliscoides* Gn. New Russia; Peru; E. Aurora (*Wild*); Ithaca; Sharon; Schenectady; Albany; Coeymans; Sullivan Co; Rhinebeck; Bronxville; **LI**. J1-Sep.
- 1353 *E. divergens* Wlk. Peru; Ithaca; Liberty. J1-Aug.
- 1357 *E. redimicula* Morr. Generally distributed, apparently commoner northward. J1-Aug.

## POROSAGROTIS Smith

- 1234 *P. vetusta* Wlk. SPOTTED-LEGGED CUTWORM. Plattsburg; Peru; Franklin Co; Rochester; Schenectady; Albany; general on **LI**. Typically associated with sandy country. A cutworm. Aug-Sep.
- 1303 *P. mimallonis* Grt. Peru; Fentons; Karner. Aug.

## EUPANYCHIS Grote

- 1195 *E. spinosae* Gn. Rye; **SI**; **LI**: Amagansett. Late Aug-Sep.

## SCHINIA Hübner

- 1152 *S. trifascia* Hbn. Ithaca; Rhinebeck; Poughkeepsie; Rye; **SI**; **LI**: Amagansett. J1-Aug.
- 1163 *S. nundina* Dru. Gloversville; Rhinebeck; New Windsor; Rye (*Bird*); Hastings (Joutel); **SI**; **LI**: Brooklyn; Pinelawn (Ds); Yaphank. Late J1-Aug. On flowers of *Solidago canadensis* (Bird).

- 1180 *S. lynx* Gn. Ithaca; Karner; Poughkeepsie; Rye (Bird); Ramapo, Nyack (Ds); **SI**; **LI**: E. Quogue (Ds); Orient, *Lath*; Amagansett, May-Aug.  
 1192 *S. arcigera* Gn. Lancaster; Ithaca; Rhinebeck; NYC; **SI**; general on **LI**. Aug-Sep. On flowers of *Aster puniceus* (Bird).

## LYGRANTHOECIA Grote and Robinson

- 1127 *L. thoreau* G. & R. Rye; **SI**; **LI**: Brooklyn. Originally described from NY. Aug-Sep.  
 1130 *L. marginata* Haw. Rochester, *Angle*; Batavia; E. Aurora; Castile; Ithaca; Sharon; Hebron, *Wls*; Schenectady and southward. Var. *constricta* H. Edw. was taken at New Windsor; **SI** (Ds). Jl-Sep. In flower head of *Ambrosia elatior* (Bird).  
 1122 *L. brevis* Grt. Karner; Mosholu; Rye (Bird); NYC; **SI**; general on **LI**. Aug 28-Sep 4. In flower head of *Aster* (Bird).  
 1120 *L. obscurata* Strk. Rye, Jl 10 (Bird).

## RHODOPHORA Guenée

- 1098 *R. florida* Gn. EVENING PRIMROSE MOTH. Common and general in flowers of *Oenothera*, the larvae eating the seed pods. Je-Aug.

## CHLORIDEA Westwood

- 1091 *C. virescens* Fab. TOBACCO BUDWORM. Rye; **SI**; **LI**: Amagansett. Larvae on flowers of tobacco and geranium (CU).

HELIOTHIS Ochsenheimer<sup>91</sup>

- 1090 *H. obsoleta* Fab. (*armiger* Hbn.). CORN-EAR WORM. Vic. of Buffalo and of NYC, and general and common on **LI**; in favorable years migrating northward as far as Watertown, Lowville, Gloversville, and Glens Falls. Je-Jl. An important fruit feeder, frequently injurious to corn and tomatoes, and, in the South, to cotton.

## MELANOPORPHYRIA Grote

- 1076 *M. immortua* Grt. Karner; Albany. Je.

## HELIOPHANA Grote

- 1054 *H. bina* Gn. "NY" (Lint).

## HELIOLONCHE Grote

- 1052 *H. modicella* Grt. There is a specimen of this, labeled "West Farms," in the Angus Collection, probably in error.

<sup>91</sup> *H. phlogophagus* var. *luteitinctus* Grt. is credited to NY by Gerhard, doubtless in error. Larva on *Grindelia*.

FAMILY AGARISTIDAE

ALYPYA Hübner

- 1042 **A. octomaculata** Fab. EIGHT-SPOTTED FORESTER. Saranac L. (possibly an error for males of the next species). Alder Creek; Fabius; Utica; Stanley; Geneva; Rochester, *Angle*; Buffalo; E. Aurora; Castile, *Brad*; Portage; Crosby; Ithaca; McLean; Oneonta; Gloversville; Schenectady; W. Troy; Albany; N. Nassau; West Pt. (Ds); Rye; Mosholu; NYC (Wat); **SI**; **LI**: Brooklyn, very common. Je-Aug (Ap-Aug on LI). Grape.
- 1046 **A. langtoni** Couper. Saranac L. (McKnight); N. Elba (Wat.); Mt. Whiteface (Shoe); Buffalo (EPV, probably in error for a variety of the preceding). Jl-Aug. Epilobium.

FAMILY ARCTIIDAE <sup>92</sup>

HAPLOA Hübner

- 1031 **H. clymene** Brown (*interruptomarginata* DeB.). Buffalo; S. Wales (*Wild*); Lancaster; Ithaca; Bath; **SI**; **LI**: Richmond Hill. Jl-early Aug. Low plants.
- 1032 **H. colona** Hbn. (*clymene* auct.). Buffalo (Grt). A general feeder.
- H. colona** var. **reversa** Stretch. STRAWBERRY TIGER MOTH. Poughkeepsie (Dyar).
- H. colona** var. **fulvicosta** Clem. "NY" (Sm). A general feeder, rarely injurious to peach.
- H. colona** var. **triangularis** Sm. Plattsburg.
- 1033 **H. lecontei** Bdv. Plattsburg; Keene Val.; Ilion; Buffalo. Cynoglossum.
- H. lecontei** var. **militaris** Harr. Fentons; Oneonta; Buffalo.
- H. lecontei** var. **smithii** Dyar. "NY", types.
- H. lecontei** var. **vestalis** Pack. "NY" (Sm).
- 1034 **H. confusa** Lyman. Plattsburg; Keene Val.; Geneva; Lancaster; Salamanca, E. Aurora, S. Wales (*Wild*); Ithaca; McLean; Binghamton; Onteora Mt.; Trenton; Schoharie; Poughkeepsie. Jl-Aug.
- H. confusa** var. **lymani** Dyar. Plattsburg; Ithaca; Poughkeepsie. Jl.
- 1035 **H. contigua** Wlk. Buffalo; Schoharie; Rogers Rock, L. George, *Jones*; Ft. Montgomery, Jl (Ds).

UTETHEISA Hübner

- 1029 **U. ornatrix bella** L. RATTLEBOX MOTH. Ausable Chasm; Buffalo; Castile, *Brad*; Ithaca (perhaps a stray); Gloversville (*Alex*); Albany; Poughkeepsie; Crugers; general southward. Var. *nova* Gross. is known from Rockaway Beach, **LI**. Je-Nov, two broods. Crotalaria; reported also from Lespedeza and Myrica.

<sup>92</sup> The species in the family Arctiidae, except in the genera Haploa, Utetheisa, Hyphantria, Ammalo, Euchaetias, and Halysidota, are general feeders.

## ARCTIA Schrank

- 1025 *A. caja americana* Harr. AMERICAN TIGER MOTH. Peru; Black Br. (larva); Essex Co; Allegany Pk. (Wild); Lockport (NYS); Canaseraga; Ithaca; McLean; Elmira; Catskills; Trenton Falls; Canajoharie; Gloversville (*Alex*); Sharon; Albany. Jl-Aug.

## EUCHAETIAS Lyman

- 1015 *E. egle* Dru. MILKWEED TUSSOCK MOTH. Castile, Je, *Brad* (Fbs); Clayton; Kissena L.; Rochester, *Angle*; Buffalo; Otto; Castile, *Brad*; Ithaca; Newport; Oneonta; Little Falls; Coeymans; Albany; Poughkeepsie; Rye; Katonah; Kinderhook; Van Cort. Pk. (Eng); **SI** (Ds); **LI**: Lynbrook. Late Je-Aug. Milkweed.
- 1018 *E. oregonensis* Stretch. Peru; Severance; Ithaca (one specimen, slightly doubtful); Saratoga; Karner; Albany. May-Jl.

## APANTESIS Walker

- 971 *A. virgo* L. Everywhere. Representative records are: Peru; Essex Co; Fentons; Clayton; Buffalo; E. Aurora; Allegany Pk.; McLean (Fbs); Ithaca; Sullivan Co; Ulster Co; Sharon; Oneonta; Gloversville; Johnstown; Albany; Rhinebeck; Poughkeepsie; Rye; **SI**. Jl-Aug.
- 982 *A. virguncula* Kby. Plattsburg; Peru; Saranac L.; Clayton; Old Forge; Aurora; Geneva; Brockport; Lancaster; Buffalo; De Bruce; Utica; Big Ind. Val.; Sharon Sps.; Pittstown (NYS); Poughkeepsie; Rye; **LI**: Newtown (Doll). Var. *otiosa* N. & D. occurs at Plattsburg. Jl.
- 973.1 *A. circa* Stk. (*intermedia* auct.). Allegany Co; Ithaca; Poughkeepsie. Sep.
- 973 *A. parthenice* Kby. Plattsburg; Peru; New Russia; Wilmington; Mt. Marcy; Fentons; Waddington; Buffalo; E. Aurora; Ithaca; McLean; Binghamton; Big Ind. Val.; Onteora Mt.; Schenectady. Aug-Sep. Larva partly carnivorous, eating other Lepidoptera.
- 974 *A. oithona* Strk. var. *rectilinea* Fr. **LI**: E. New York; Woodhaven.
- 979 *A. anna* Grt. Northern NY; Ithaca (male); Albany; New Windsor; **LI**. Typical specimens of var. *persephone* Grt. have been seen from: Ithaca; Utica; Ulster Co; Newburgh. Late Je-Jl; Sep.
- 977 *A. arge* Dru. Plattsburg; Essex Co; Rochester; Brockport; Buffalo; Ithaca; Binghamton; Oneonta; Albany; New Windsor; Poughkeepsie; Rye; general southward. Var. *nervosa* N. & D. occurs in the spring brood at Ithaca and on **LI**. Ap-Je; Aug-Sep.
- 989 *A. phyllira* Dru. Mt. Kisco; Rye; **LI**: Wyandanch, *Sf*. Var. *excelsa* Neum. was taken at **LI**: Rockaway Beach. May-Je.
- 991 *A. celia* Saund. Plattsburg; West Pt., Je (Ds).
- 990 *A. figurata* Dru. Lancaster; **LI**: Brentwood.
- A. figurata* form *snowi* Grt. **LI**: Bellport, *Nic*.
- 995 *A. nais* Dru. Ithaca; McLean; Albany; Rhinebeck; Poughkeepsie; Huguenot; Rye; Katonah; **SI**. Reported from Buffalo and Newburgh, but there is a little danger of confusion with forms of *vittata*. The species is not well understood. May-Aug.
- 996 *A. vittata* Fab. (*phalerata* Harr.). HARNESSSED MOTH. Seen from N. Fair Haven; Rochester; Buffalo; E. Aurora; Potter Swamp; Poughkeepsie; Newburgh; Katonah; **SI**. Je-Sep.



## ECPANTHERIA Hübner

- 964 *E. deflorata* Fab. (*scribonia* Stoll). GREAT LEOPARD MOTH. Buffalo; Lancaster; Oneonta; Rhinebeck; Poughkeepsie. Common about NYC.

## ESTIGMENE Hübner

- 960 *E. acraea* Dru. SALT-MARSH CATERPILLAR. Common everywhere. Je-Jl; Aug. Two broods.  
*E. acraea* var. *dubia* Wlk. Ithaca, Jl 1, 1915.  
 962 *E. prima* Sloss. Plattsburg; Chateaugay L.; LI: Pine Haven. May.  
 963 *E. congrua* Wlk. (*antigone* Strk.). Keene Val.; Brockport; Rock City; Ithaca; McLean; Catskills; Schenectady; Albany; Rhinebeck; Poughkeepsie; New Windsor; SI; LI: Bellport. Je-early Jl.

## HYPHANTHRIA Harris: THE FALL WEBWORMS

- 959 *H. cunea* Dru. Verified records are: Peru (one white specimen); Buffalo; E. Aurora, *Wild*; Ithaca; Utica; Albany; Florida; Yorktown; Rhinebeck; SI; LI: Brooklyn; Oyster Bay. More southern in dominance than *textor*, which may be a race of it. Var. *pallida* Pck. was described from "NY". Ap-May; Jl. Two broods. General on trees, sometimes injurious to apple.  
 958 *H. textor* Harr. Seen from Bronxville; SI; LI: Greenport. Reported also from: Fentons; Buffalo; Angola; Albany; LI: Brooklyn; Orient; but part of these latter records may be based on white specimens of *H. cunea*. Larva like the preceding. Je-Jl. Normally one brood.

## ISIA Walker

- 957 *I. isabella* S. & A. BLACK-TIPPED BEAR. Common wherever collections have been made. Je-Aug.

## DIACRISIA Hübner

- 954 *D. virginica* Fab. YELLOW BEAR. Very common everywhere. May-Sep.  
 953 *D. latipennis* Stretch. Brockport; Buffalo; Potter Swamp; Ithaca; McLean; Newport; Karner; Albany; Big Ind. Val.; New Windsor; Poughkeepsie; Ft. Montgomery, Nyack (Ds); SI; LI: Flushing; Gardiners I. May-early Jl.

## PHRAGMATOBIA Stephens

- 948 *P. fuliginosa* L. Common everywhere. May-Aug.  
 949 *P. assimilans* Wlk. Plattsburg; Hudson; Ithaca (one specimen of var. *franconica*); Big Ind. Val. May. The type (Doubleday Coll.) was presumably from Trenton Falls.

## HYPHORAIA Hübner

- 943 *H. hyperborea* Curt. Catskills (Pears).  
 942 *H. parthenos* Harr. Saranac; Mt. Marcy; Mt. Whiteface; Schoharie; Catskills. Je.

## EUBAPHE Hübner

- 931 *E. laeta treatii* Grt. Ithaca; **LI**: Yaphank. JI.
- 937 *E. opella* Grt. E. Aurora; Ithaca; Poughkeepsie; **LI**: Bellport; Brookhaven; Yaphank. Je-Aug.
- E. opella* var. *nigricans* Reak. West Pt., not uncommon (Ds); **LI**: Wading R. (Ds).
- 934 *E. aurantiaca* Hbn. I am quite unable to sort out the various so-called forms of *aurantiaca* and *immaculata* Reak., which together cover the State. Specimens from Ithaca and the Adirondacks generally approach *immaculata*, while those from near NYC are more typical of *aurantiaca*. I have seen var. *quinaria* Grt. from Newcomb, Adirondack Lodge, and Big Ind. Val., and it is general, but relatively rare. Form *trimaculosa* Reak. is reported from Ft. Montgomery (Wat). Je-Aug.

## HALYSIDOTA Hübner

- 921 *H. tessellaris* S. & A. BANDED TUSOCK MOTH. Many of the following records are based on the imago, and may belong to the next species: Peru; Essex Co; Adirondack Lodge; Fentons; Saranac L.; North Cr.; Clayton; Rochester; Honeoye Falls; Buffalo; E. Aurora; Allegany Pk.; Castile; Ithaca; McLean; Newport; Oneonta; Oliverea; Utica; Little Falls; Schenectady; Albany; Rhinebeck; Poughkeepsie; Rye; Florida. Late Je-Aug. Maple and many other trees.
- 922 *H. harrisii* Walsh. The following records have been verified by the larvae: Ithaca (CU); Ulster Co and Poughkeepsie (Dyar). Sycamore only.
- 918 *H. maculata* Harr. SPOTTED TUSOCK MOTH. Plattsburg; Peru; Wilmington (larvae); Fentons; Elizabethtown; Rochester; Castile; E. Aurora; Batavia; Buffalo; Lancaster; Ithaca; Big Ind. Val.; Oneonta; Gloversville; Little Falls; Albany; Rye; commoner southward. Je-JI. Apple and other trees.
- 915 *H. caryae* Harr. HICKORY TUSOCK MOTH. Common throughout the State. Je-JI. General on trees and shrubs.

## AMMALO Walker

(Tanada Walker)

- 905 *A. tenera* Hbn. (*collaris* Fitch). Clayton; Buffalo; Rochester; Irving (Wild); Ithaca; Oneonta; Karner; Poughkeepsie; Katonah; Rye; Bronxville; Astoria; Van Cort. Pk. (Wat); **SI**: **LI**: Brooklyn. Je-early Aug. Apocynum.
- 907 *A. inopinatus* H. Edw. (*eglenensis* auct.). Big Ind. Val.; **SI**; **LI**, to Yaphank. The type occurs near NYC; the other records are based on the gray form that passes for *eglenensis*. JI-Aug. Milkweed.

## FAMILY LITHOSIIDAE

## HYPOPREPPIA Hübner

- 899 *H. miniata* Kby. General. JI-Aug.
- 900 *H. fucosa* Hbn. General with the preceding species, and commoner as a whole. JI-Aug. Lichens.

## CLEMENSIA Packard

- 892 **C. albata** Pack. N. Elba; Saranac L.; S. Wales (Wild); Buffalo; Otto; E. Aurora (*Wild*); Ithaca; Big Ind. Val.; Onteora Mt.; Rhinebeck. Je-Jl.

OZODANIA Dyar<sup>93</sup>

- 881 **O. tenuifascia** Harv.? (*unifascia* Hamp.). "NY" (Hampson).  
884 **O. injecta** Dyar. Ithaca, Jl 14, 1892 (CU).

## CRAMBIDIA Packard

- 856 **C. pallida** Pck. Plattsburg; Ithaca; McLean; Poughkeepsie. Late Jl-early Sep.  
860 **C. casta** Sanb. Ausable Chasm; Wilmington; Saranac L.; Fentons; LI: Yaphank. Aug-Sep.

## LEXIS Wallengren

- 855 **L. bicolor** Grt. Plattsburg; Ithaca. Aug.

## FAMILY NOLIDAE

## ROESELIA Hübner

- 851 **R. minuscula** Zell. Keene (Wild); Buffalo (*Wild*); Ithaca; SI; LI: Long Island City; Lynbrook; Bellport; Cold Sp., *Kch* (Fbs). Our records seem to belong to var. *phylla* Dyar. May-Jl.

## NIGETIA Walker

- 850 **N. formosalis** Wlk. Lancaster; Buffalo; Rhinebeck. Flies in Virginia in Je.

## NOLA Leach

- 847 **N. clethrae** Dyar. Castile, Je, *Brad* (Fbs); LI: Bellport (type), Brookhaven, South Haven, Quogue (Dyar). *Clethra*.  
846 **N. ovilla** Grt. Plattsburg; SI; LI: Aqueduct (Ds). I am not sure what this species is (Fbs). Je. Oak.

## CELAMA Walker

- 844 **C. triquetra** Fitch. E. Aurora; West Falls; Portage; Ithaca; Dutchess Co; Pearl R.; Bronx; SI; LI: Wading R.; Yaphank. Late Ap-Je. Witch-hazel.  
841 **C. pustulata** Wlk. Rhinebeck; Poughkeepsie.  
842 **C. cilicoides** Grt. Ithaca, Jl; McLean (Fbs).

<sup>93</sup> The larvae of this genus feed on lichens.

## FAMILY EUCHROMIIDAE

(Syntomidae, Zygaenidae)

## CTENUCHA Kirby

- 838 **C. virginica** Charp. General, southward to Hunter, Big Ind. Val., Greene Co., and Ft. Montgomery. It should occur in the rest of the State, but I have not seen it. Late May-early Jl. Grass.

## LYCOMORPHA Harris

- 831 **L. pholus** Dr. Wilmington; Fentons; Clayton; Clifton Sps.; Niagara Falls; Buffalo; Allegany Pk.; Hemlock L.; Ithaca; Hope; Big Ind. Val.; L. George; Schoharie; Gloversville (*Alex*); Pine I.; **SI**; **LI**: Woodhaven. Jl-Aug. Lichens.

## SCEPSIS Walker

- 824 **S. fulvicollis** Hbn. Peru; Fentons; Newport; Rochester; Honeoye Falls; Batavia; Lancaster; Protection; Ithaca; McLean; Schoharie; Albany; and southward. Je-early Sep. Grass.

## SUBORDER RHOPALOCERA

## FAMILY HESPERIIDAE

## SUBFAMILY HESPERIINAE

## EUDAMUS Swainson

- 458 **E. proteus** L. BEAN LEAF ROLLER. Central Pk. in NYC (Eng); **LI**: Brooklyn. Rarely breeding. Aug; late Sep-early spring. Legumes, rarely Cruciferae; in the South injurious to beans.

## EPARGYREUS Hübner

- 468 **E. tityrus** Fab. SILVER-SPOTTED SKIPPER. Everywhere, northward to Clayton and Keene Val. at least; **LI**: generally distributed and very common; Oakdale, Je 12; Hempstead, Jl 3; Flushing, May 8, Aug 2, Sep 16; Coram, Sep 4; (all Bell). Je-Jl. Locust and other Leguminosae.

## RHABDOIDES Scudder

- 473 **R. cellus** Bdv.-Lec. **LI**: Brooklyn, presumably a stray. *Breweria aquatica*.

## ACHALARUS Scudder

- 472 **A. lycidas** S. & A. Syracuse; Rochester (Angle); Portage; Karner; Greenwood L.; Riverdale (NYS); **SI**, uncommon forty years ago, but has gradually increased in numbers (Ds); **LI**: Flushing, Je 26 (G.L. Standfast); Jamaica, Je 18, '25 (Bell). May-Jl. *Meibomia paniculata* (preferred) and *Lespedeza* (Wat).

THORYBES Scudder

- 485 *T. daunus* Cr. (*bathyllus* S. & A.). Katonah; Bronxville; **SI**; **LI**, well distributed and common: Coram, May 22, Jamaica, Je 4, Oakdale, J1 4 (Bell). Reported also from Keene Val., *Not*, Deposit and Binghamton (*Blackburn*), Oneonta, and Schoharie, but I have not seen the specimens, which may be heavily marked specimens of *pylades*. Je-early J1. *Lespedeza capitata* (preferred) and other legumes (Wat).

COCCEIUS Godman and Salvin

- 483 *C. pylades* Scud. Common everywhere. **LI**: Wyandanch, May 28, Jamaica, Je 4, Oakdale, Je 18 (Bell). Je; a partial brood in Aug. Clover and other legumes.

PHOLISORA Scudder

- 512 *P. catullus* Fab. Rochester, fairly common (Angle); Honeoye Falls; Buffalo; Crosby; Ithaca; Binghamton (*Blackburn*); Ulster Co; Ft. Edward; Karner; Albany; Bethlehem; Tappan; NYC; **SI**; **LI**, usually common: Flushing, May 26, Je 16, Aug 3, Jamaica, J1 16, Hempstead, Sep 5 (Bell); Lynbrook. Mid May-mid Je; Aug. *Chenopodium album* and *Amaranthus* (Wat).

THANAOS Boisduval

- 518 *T. brizo* Bdv.-Lec. Jamestown (EPV); Karner; Sloatsburg, *Not*; Bronxville; **SI**; **LI**, common locally: Central Pk., Ap 29, May 28, Coram, May 15 (Bell); Yaphank. May-Je. Oak.
- 517 *T. icelus* Lint. Black Br.; Keene Val., *Not*; Clayton; Gowanda; Rock City; Eggleston's Glen; Crosby; Taughannock Falls; Ithaca; Karner; Schoharie; Gloversville (*Alex*); Windsor, *Not*; Rhinebeck; Bronxville; **SI**; **LI**, generally distributed and locally common: Massaquogue; Smithtown; Flushing, May 8; Central Pk.; Coram; Oakdale (all Bell). Je. Willow and poplar (Wat).
- 520 *T. lucilius* Lint. Axton; Keene Val (NYS); Rochester, Conesus L. (Angle); Buffalo (EPV); Crosby; Ithaca; Hunter; Schoharie; Karner; Bethlehem; Ramapo Mts.; Croton-on-Hudson (Ds); **LI**: Jamaica, May 28; Central Pk., May 29 (Bell); Coram, Je 15 (Eng); Flatbush. May; mid J1-mid Aug; occasional in Sep. Columbine.
- 521 *T. persius* Scud. Gloversville (*Alex*); Portage (EPV); E. Aurora, *Wild*; Rensselaer (Lint); Karner; **SI**: Watchogue; **LI**, locally common: Coram, May 13, Sep 2, Jamaica, Je 4, Flushing, J1 27 (Bell); Hempstead Plain, Aug 8 (Eng); Amagansett. I am not sure that any of these records belong to the true *T. persius* Scud. (1892), but they would be included in Scudder's later conception of the species (Fbs). May-Sep. *Baptisia tinctoria* (Wat); reported also from poplar and willow.
- 524 *T. martialis* Scud. Clayton; Rochester; E. Aurora, *Dnd*, *Wild*; Buffalo, Niagara Falls (*Wild*); Eggleston's Glen, Ithaca; Raven Pass; Kaaterskill; Karner; Albany; Glen (Meske); Bethlehem, West Pt., Croton-on-Hudson, Ramapo, and **SI** (Ds); **LI**: Flatbush. Late May-Je; late J1-Aug. Red-root. Reported also from wild indigo.
- T. martialis* ab. *ausonius* Lint. Karner (type).



- 525 **T. juvenalis** Fab. Clayton; Rochester, Conesus L. (Angle); Buffalo; Portage; Rock City; Crosby; Ithaca; McLean; Schoharie; Karner; Rensselaer; Sloatsburg, *Not*; Mosholu; Bronxville; **SI**; **LI**, generally distributed and very common in the pine barrens: Central Pk., May 3, Oakdale, Je 17, Flushing, May 8 (Bell); Oyster Bay; Smithtown; Yaphank. May-early Je in central NY, and May-Oct, with two broods, on SI. Oak, less commonly legumes (Wat).
- 527 **T. horatius** Scud. & Burg. Ramapo Mts.; Bronxville; **SI**; **LI**, generally distributed: Central Pk., Ap 19, May 3, Flushing, Jl 12, Aug 15, Sep 29, Kings Pk., Jl 26 (Bell); Amagansett; Wading R. May-Oct, two broods. Pin and other oaks, less commonly legumes.

## HESPERIA Fabricius

- 495 **H. tessellata** Scud. (*Pyrgus montivaga* auct.). Pittsford, Boughton; Rochester (Angle); E. Aurora, *Dnd*, *Wild*; Hamburg, first record 1910 (Wild); Castile, *Brad*; Ithaca (abundant); **SI**; **LI**, a southern visitant, at times locally common, Jl-Aug: Maspeth, Aug, 1898; Flatbush. Not known to hibernate on LI (Eng). Jl-Sep, rarely Ap. *Sida spinosa* (Wat).
- 488 **H. centaureae** Ramb. E. Aurora, *Dnd* (Angle); Ramapo Mts; **LI** (Calverly teste Edwards).

## SUBFAMILY PAMPHILINAE

## CARTEROCEPHALUS Lederer

(*Pamphila*)

- 536 **C. palaemon mandan** Edw. Black Br.; Camp No. 3, Paul Smiths, *Babiy*; Lewis Co, *Hill*; not uncommon in the N. Elba region (div.); McLean. May-Aug. Females observed ovipositing on grass (Wat & Coleman).

## ANCYLOXIPHA Felder

- 544 **A. numitor** Fab. Common mostly in wet places. Definite records are: Honeoye; E. Aurora; Geneva; Lancaster; Castile; Ithaca; Karner; Onteora Mt.; Bethlehem; Castleton; Coeymans; Rhinebeck; Poughkeepsie; Pine I.; **SI**; **LI**, generally distributed and very common in grassy fields: Flushing, May 28, Aug 2, Sep 10, Oct 1, Central Pk., Je 5, Farmingdale, Jl 3, Oakdale, Jl 4 (Bell); Lynbrook; Gardiners I. (Ds). The absence of northern records may be accidental. Je-Sep, three broods. Grasses.

## PAMPHILA Fabricius

(*Erynnis* etc.)

- 556 **P. metea** Scud. Karner, *Hill* (Fbs); Croton-on-Hudson (Ds); **SI** (Ds, Wainwright); **LI**, not common; Coram, May 13, Wyandanch, May 14 (Bell); Massapequa, May 23, Wading R., May 29 (Ds); Yaphank. May-Je. Grass.

[565a **P. attalus seminole** Scud. is not rare from Mass. to Fla., and therefore it must certainly occur in the State. Jl.]

- 566 **P. leonardus** Harr. Plattsburg; Keene Val., *Not*; Fentons; Alexandria Bay; Clayton; Catskills; Gloversville (*Alex*); Windsor, *Not*; Karner; **SI**; **LI**, in the pine barrens, locally common: Coram, Sep 1 (Bell), Sep 18 (Eng); Yaphank, Amagansett, Sep (Ds). Late Aug-Sep. Grass.
- 570 **P. sassacus** Harr. Mt. Whiteface (Ds); Peru; Axton (NYS); Rochester (Angle); Niagara Falls (Wild); Buffalo (EPV); Chipmunk Swamp, Vandalia; Rock City; Castile; Portage; McLean; Karner; Bethlehem (Lint); Olivera (Ds); W. Hebron (Lg); Ft. Montgomery (Ds); Rhinebeck; Ramapo (Ds); **SI**; **LI**, local, common in the pine barrens: Coram, May 22, Jamaica, Je 5, Central Pk., May 29, Je 5 (Bell); Yaphank. Je-Jl in northern NY; May-Je in southern NY. Grass.

## HYLEPHILA Billberg

- 571 **H. phylaeus** Dru. Katonah; NYC, var. locs. (div.); **SI**; **LI**: Brooklyn, Jl-Aug (div.); Canarsie, in the fall (Doll); Flushing, Jl 26, Aug 29, Sep 2 (Bell). Grass.

## POLITES Scudder

- 576 **P. cernes** Bdv.-Lec. (*Limochores taunias*). Common wherever looked for. **LI**, well distributed and very common: Sands Pt., May 21, Central Pk., Je 5, Flushing, Jl 23, Aug 16, Oakdale, Je 12 (Bell); Gardiners I. (Ds). Je-Sep, two broods. Grass (*Panicum*, etc.).
- 577 **P. manataqua** Scud. Rochester (Angle); Gowanda (Wild); Olivera, E. Jewett (Ds); Albany, Karner, Bethlehem (Lint); Oneonta (Cleveland); Katonah; Van Cort. Pk.; **SI**; **LI**, locally distributed and usually not very common: Oakdale, Jl 1, Hempstead, Jl 3, Kings Pk., Jl 27, Coram, Sep 5 (Bell); Wading R. Jl-Aug. Grass.
- 581 **P. mystic** Scud. Mt. Whiteface (Ds); Axton; Fentons; Potsdam; Rochester (Angle); E. Aurora (Wild); Lancaster; Rock City; Castile, *Brad*; Portage; Ithaca; Rensselaer; Liberty; Olivera, E. Jewett (Ds); Karner; Bethlehem; Ramapo Mts.; **SI**; **LI**, sometimes common locally: Oakdale, Je 12, Jl 1 (Bell); Mt. Sinai Harb., Sep 3 (Eng); Gardiners I., Je, 1911 (Ds). Je and mid Jl-Aug. Grass.
- 583 **P. peckius** Kby. Common wherever looked for. **LI**, usually very common: Sands Pt., May 21, Central Pk., Je 5, Flushing, Jl 23, Aug 2, Sep 16 (Bell); Gardiners I. (Ds). Je-Aug. Grass.
- 587 **P. brettus** Bdv. **LI**, a stray (BM).

## ATALOPEDES Scudder

- 589 **A. campestris** Bdv. Ithaca; Van Cort. Pk., *Blackburn*. Strays. Jl-Aug. Cynodon.

## CATIA Godman and Salvin

- 590 **C. otho egeremet** Scud. Common southward. Keene Val., *Wild*; Clayton; Rochester, *Angle*; E. Aurora, *Dnd*, *Wild*; Ithaca, rare; Sharon Sps.; Karner; Bethlehem; **SI**; **LI**, usually common: Jamaica, Je 18, Flushing, Jl 9, Oakdale, Jl 10 (Bell); Wading R.; Gardiners I. (Ds). Aug. *Panicum*.

## POANES Scudder

- 591 *P. massasoit* Scud. Karner; Bethlehem (Lint); Orange Co; Tappan, Jl-Aug, common (Wat and Friedle); Van Cort. and Bronx Pks. (Wat and W.P.Comstock); **SI**, Jl-Aug (Ds); **LI**, local and not common, usually found in swampy locations: Flushing, Jl 9, 1923 (Bell); Wyandanch, Aug 3 (Ds); Riverhead, Aug (Ds). Grass.
- 592 *P. hobomok* Harr. Everywhere. **LI**, generally distributed and very common: Sands Pt., May 21, Jamaica, Je 4, Coram, May 22, Oakdale, Je 19 (Bell); Lynbrook, Je. Grass.
- P. hobomok* ab. *pallida* Wat. Dunwoodie, May 21 (type).
- P. hobomok* form *pocahontas* Scud. Plattsburg; Clayton; Buffalo (Wild); Castile, *Brad*; Windsor, *Not*; Ithaca; Freeville; Greene Co; **SI**; **LI**: Central Pk., May 29, Je 5, Oakdale, Je 12, Jamaica, Je 18 (all Bell).
- P. hobomok* form *pocahontas* ab. *friedlei* Wat. Van Cort. Pk., Sep 10 (type).
- 593 *P. zabulon* Bdv.-Lec. Washington Hgts., NYC (Wat and Friedle); **SI**; **LI**: Flushing, Aug 19, 26, 1916 (Bell). Practically all the published records for *zabulon* belong to *hobomok*. May-Oct. Grass.

## ATRYTONE Scudder

- 597 *A. logan* Edw. (*delaware* Edw.). Bethlehem, Karner (Lint); northern Westchester Co (W.C.Wood); Croton-on-Hudson, Ramapo (Ds). Jl-early Aug. *Erianthus alopecuroides*.

## PARATRYTONE Godman and Salvin

- 602 *P. aaroni* Skin. Reported from Brooklyn, probably in error. Je; Aug. Grass in salt marshes.

## PHYCANASSA Scudder

- 600 *P. viator* Edw. Mt. Marcy; Batavia; western NY, fairly common (Angle); **SI**; **LI**, locally distributed; often very common where it occurs: Flushing, Jl 16 and 30, Aug 7 (Bell); Jamaica, Aug 11 (Eng); Aqueduct. Jl. Grass, most often in salt marshes.

## EUPHYES Scudder

- 604 *E. vestris metacomet* Harr. Newcomb; North Cr.; Fentons; Rochester (Angle); E. Aurora, Allegany Pk. (Wild); Newport; Clayton; Ithaca; McLean (Fbs); Schoharie; E. Jewett (Ds); Shelving Rock, L. George; Bethlehem; Beaver Kill; Ft. Montgomery, Croton-on-Hudson (Ds); **SI**; **LI**, generally distributed and common: Jamaica, Je 25, Oakdale, Jl 4, Flushing, Jl 23 (Bell); Coram, Aug 4 (Eng); Wading R. Jl-Aug. Grass.
- 605 *E. bimacula* G. & R. Michigan Swamp, Ithaca, Je 22 (*Fbs*); Karner; Cedar Hill. Reported also from: Bethlehem, Sharon Sps., *Lint*; Waterville, *Not*; Lancaster; Colden. Je-Jl. Grass.
- 609 *E. dion* Edw. Batavia. Jl; Sep. Grass.

- 610 **E. conspicua** Edw. (*pontiac* Edw.). Buffalo; western NY, fairly common (Angle); Gloversville (*Alex*); Buffalo; Bronxville; **SI**; **LI**, common in swampy locations: Flushing, J1 2 and 23; Jamaica, J1 16 (Bell); Flatbush; Aqueduct. J1. Grass.

ATRYTONOPSIS Godman and Salvin

- 613 **A. verna** Edw. Ithaca ? (female only); Sharon Sps.; Karner; Bethlehem; Katonah; Bronxville; Ramapo; Croton-on-Hudson; **SI**; **LI**, well distributed and fairly common: Jamaica, Je 18, Oakdale, Je 19, Kings Pk., J1 30 (Bell). Je-Aug. Grass.
- 615 **A. hianna** Scud. Karner (Fbs); Bethlehem (*Lint*); **LI**, apparently very scarce: Central Pk., May 29, 1921, Oakdale, Je 22 (Bell). End of May-Je. Grass.

AMBLYSCIRTES Scudder

- 626 **A. vialis** Edw. Axton; Keene (Wild) and Keene Val., *Not*; Saranac L., *Not*; Bethlehem (*Lint*); Karner; Rhinebeck; Yonkers; **LI**, local in distribution and not very common: Coram, May 13, Je 10 (Bell); Wading R., May 31 (Ds). Je-Aug. Grasses (*Avena*, *Poa*).
- 635 **A. hegon** Scud. (*samoset* Scud.). Axton, Keene Val. (NYS); Windsor, *Not*; McLean; Poughkeepsie; Sloatsburg (div.). Late May-J1. Sorghum (Abbot).

MEGISTIAS Godman and Salvin

- 641 **M. fusca** G. & R. (*Stomyles*, *Oligoria*). Van Cort. Pk. (Wat); **SI**, Je, rare (Ds); **LI**, apparently scarce: Rockaway Beach, Je 27 (Shoe). Je; Aug-Sep. Grass.

LEREMA Scudder

- 642 **L. accius** S. & A. **LI**: New Lots, 1863 (Grote).

LERODEA Scudder

(*Oligoria* Scudder)

- 646 **L. maculata** Edw. Karner. J1.

CALPODES Hübner

- 647 **C. ethlius** Cr. CANNA SKIPPER. Albany, 1893 (Bt); West Farms (according to Holland's *Butterfly Book*); **LI**, not indigenous, its occurrence in NY probably accidental; Bell states: "The first specimen was taken by Engelhardt at Yaphank, May 30, 1911, and the species was afterwards taken by a number of other collectors at various places, but did not survive the winter. Brooklyn, Sep 30, 1911; Middle Village, Oct 1911"; Maspeth; Floral Pk.; Glendale; Yaphank. Canna.

PRENES Scudder

- 653 **P. ocola** Edw. **SI**: Annadale, Sep, 1896, *Capt. R. D. Wainwright* (Ds).

## FAMILY PAPILIONIDAE

## LAËRTIAS Hübner

- 1 **L. philenor** L. GREEN SWALLOW-TAIL. E. Aurora, Allegany Pk., strays (Wild); Ithaca, a stray; Tappan; Tarrytown (NYS); **SI**; **LI**, local, but often common: Brooklyn; Flushing, Sep 16 (Bell), J1 and Sep, two broods (Eng). A short-tailed var. similar to *acauda*, which is Mexican, occurs at Brooklyn; ab. *wasmuthi* Wks. was described from Flatbush, **LI**. Aristolochia.

## PAPILIO Linnaeus

- 4b **P. polyxenes asterius** Cr. BLACK SWALLOW-TAIL. Common and general except perhaps in the higher Adirondacks: Newport (NYS); Keene Val. and Franklin Co. *Not*; Rochester; Buffalo; Crosby; Ithaca; Schoharie; Lestershire; Albany; **SI**; **LI**, generally distributed and usually common: Central Pk., May 5, Jamaica, Je 12, Flushing, J1 9, Aug 2, Hempstead, Sep 5 (Bell). The aberration *calverleyi* Grt. was described from Queens Co. Je-Sep, two broods. Umbelliferae (once found on cosmos by Fbs).
- 11 **P. cressphontes** Cr. GIANT SWALLOW-TAIL. Rochester (Angle); Albion; Batavia; Lancaster (EPV); La Salle (Wild); Buffalo; Ithaca; Cortland, *Wickwire*; Schoharie (NYS); Altamont; Selkirk; New Baltimore; Albany; Athens; Rhinebeck; New Paltz (NYS); Poughkeepsie; Bear Mt., Arden, *F. M. Brown* (Wat); NYC—Bronx Pk., Van Cort. Pk., and Washington Hgts. (Wat and Comstock); **SI**; **LI**: Flushing, Aug 17 (W.J.Hamilton, Jr.); Brooklyn; Glencove; Yaphank, Aug, 1882 (Wks). Je; Aug-Sep. Prickly ash, Ptelea, and other woody Rutaceae.
- 13 **P. glaucus** L. The typical form is reported from: Buffalo; Nyack; **SI**, earliest date, Ap 22, 1919 (Ds); **LI**: Dyker Hgts., Brooklyn, May 9, 1919 (Pasch); Flushing, Aug 13 (Bell); Yaphank, May 29, 1911 (Ds).
- P. glaucus** var. *turnus* L. TIGER SWALLOW-TAIL. Everywhere in the State. **LI**, general and common: Flushing, Ap 28, Aug 2, Coram, May 13, Jamaica, Je 4, Hempstead, J1 3, Smithtown, Sep 10 (Bell). May-Je; mid J1-Aug. Wild cherry, lilac, and many other trees and shrubs.
- 18 **P. troilus** L. BLUE SWALLOW-TAIL. General except in the Adirondacks. Keene Val., *Not*; Gloversville (*Alex*); Utica (NYS); Rochester (Angle); E. Aurora (Wild); Rock City; Potter Swamp; Ithaca; McLean; Dutchess Co; Greenwood L.; Ramapo Mts.; **SI**; **LI**, generally distributed and usually common: Flushing, Oakdale, Coram (Bell); Wading R. (NYS). May-Sep, two broods. Sassafras and spicebush.
- 19 **P. palamedes** Dru. **SI**: Ft. Wadsworth, Je 18, 1914, *Bs* (Ds); **LI**: Brooklyn, taken many years ago by Benjamin Meyer (Doll).

## IPHICLIDES Hübner

- 20 **I. marcellus** Cr. (*ajax* auct.). ZEBRA SWALLOW-TAIL. Mt. Marcy, one specimen on summit and another at N. Elba, J1, both var. *lecontei* R. & J. (Wat and Coleman); Rochester (Angle); Brockport, all forms (Angle); Lockport (Wild); Buffalo, all forms (EPV); E. Aurora, very rare (Wild); Cortland, *Wickwire*; Sloatsburg, *Cook*; **SI** (Ds and Fulda); **LI**: Flushing, J1 2, 1920 (W.J.Hamilton, Jr.); Eastern Parkway, Brooklyn, 1867 and 1911 (Doll); Brighton Beach, J1, 1912 (Eng); Rockaway. Papaw.



## FAMILY PIERIDAE

## APPIAS Hübner

- 28 **A. ilaire** Gdt. (*Tachyris margarita* Hbn.). Lancaster, 1880 (EPV); two specimens seen and one captured Je 10, 1906, at Canarsie, **LI**, by Otto Mayer, in a field containing an occasional patch of scrub and partly hemmed in by truck gardens. The one captured was on blackberry blossoms (Bul. Brooklyn Ent. Soc., vol. 8, p. 45, 1913). Cruciferae.

## PIERIS Schranck

## (Pontia)

- 34 **P. protodice** Bdv.-Lec. CHECKERED WHITE. Pittsford, Boughton; Brockport; Buffalo and vic. (EPV); E. Aurora (*Wild*); Ithaca; Schoharie; Karner (Cook and Wat); Bronx and Van Cort. Pks. (Wat); **SI**, but not in recent years (Ds); **LI**: City Line, Brooklyn, and common along the Aqueduct, Sep 12, 1910 (Ds); S. Jamaica, Jl 28, 1912 (Ds); Long Pond, Wading R., Aug 8, 1912 (Ds); East NY, Jl-Oct (Shoe); Glen Cove. Two broods. Cruciferae, especially *Lepidium virginicum* (Wat). The spring form *vernalis* Edw. has not been separately recorded.
- 35f **P. oleracea** Harr. MUSTARD WHITE. Double-brooded. Formerly common and widespread, now replaced by *rapae* except in out-of-the-way places and open woods. Recent records are: Axton, 1901; Speculator, 1901; Keene Val., 1907, *Not*; Wilmington, Mt. Whiteface, 1916; N. Elba, 1918; Wilmurt; Malone (NYS). Last seen at Lancaster, 1878 (EPV). May; Aug. Cruciferae.
- 35i **P. virginensis** Edw. Single-brooded. Authentic records are: Potsdam; vic. Buffalo (EPV); Slaterville (*Fbs*); Trenton Falls (*Fbs*); McLean, 1916-25, still very common locally. I do not know whether this or the preceding species was taken at Brooklyn, 1894, Sullivan Co, 1896, and Jay, 1911. May-Je. Slender Cruciferae.
- 37 **P. rapae** L. CABBAGE BUTTERFLY. Common everywhere in the open, introduced from Europe. Ap-Oct. Cruciferae, especially injurious to cabbage.
- P. rapae** var. *immaculata* Ckll. Occurs commonly in the spring brood.

## ANTHOCHARIS Boisduval

## (Synchloë Hübner in part)

- 43 **A. genutia** Fab. ORANGE TIP. Highlands of the Hudson, *Eng*; Greenwood, Tuxedo (Ds); Newburgh; Ramapo Mts.; **LI**: Canarsie (Blackburn). Ap-May. Arabis.

## CALLIDRYAS Boisduval and LeConte

- 47 **C. eubule** L. CLOUDLESS SULPHUR. Rochester, rare (Angle); Wayne Co, *Mable R. Wiggins*; Washington Hgts., Crotona Pk., NYC (Wat); **SI**; **LI**, an annual visitor in late summer, Aug and Sep, but no breeding records on hand (Bell); large migrating swarms were observed along the seashore at Massapequa and Patchogue, Aug, 1920 (*Eng*); Yaphank, Sep, 1911 (Wks); Bayshore, Sep 25, 1913 (Dow); Bellport, Sep, 1911 (Nic); Jamaica, Sep 14, 1903, Aqueduct and Rockaway Beach, Sep 14 and 22 (Shoe); Long Beach, Sep 21, 1916 (Ds). Cassia.

## ZERENE Hübner

- 55 *Z. caesonia* Stoll. DOG-FACED BUTTERFLY. **SI**, Jl, 1896, in numbers, but has not been seen since (Ds); **LI**: Prospect Pk.; Brooklyn (Doll).

## EURYMUS Swainson

- 59 *E. eurytheme* Bdv. ALFALFA BUTTERFLY. Rochester, fairly common in Oct (Angle); E. Aurora, *Wild*; Allegany Pk., *W. Alex* (Wild); Cortland, reported fairly common, *Wickwire*; Van Cort. Pk., *ABKlots*; Washington Hgts. (Wat); **SI**; **LI**: "a single pair of this species was taken by the late *SLEliot* at Astoria" (Bt); Hicksville, Westbury (Doll); Brooklyn. All summer. The stray specimens in the northeast are mostly taken in Aug. Alfalfa, etc.
- 60 *E. philodice* Godt. CLOUDED SULPHUR. Common everywhere. **LI**, common everywhere: Flushing, May 8, Aug 2, Sep 10, Oct 7, Oakdale, Je 12, Hempstead, Jl 3, Syosset, Nov 19 (Bell). May-Oct. Clover, etc.
- E. philodice* ab. *pallidice* Scud. Common everywhere with the type. **LI**, common: Flushing, Je 30, Jl 14, Aug 10, Coram, Sep 2 (Bell).
- E. philodice* ab. *nigridice* Scud. Binghamton; Palmyra (Scud).
- 63 *E. interior* Scud. Mt. Marcy (Wat and Coleman); Keene Val. (NYS); Osgood Pond; Camp Lou; Newcomb; L. Tear; Paul Smiths (*W.P.Comstock*). Jl. *Vaccinium*.

## EUREMA Hübner

- 76 *E. nicippe* Cr. LITTLE ORANGE SULPHUR. Ithaca; Pine I. (Lutz and Wat); **SI**, May-Oct, in 1880 appeared in great numbers (Ds); **LI**: Jamaica, common one season (Doll and Eng); Brooklyn; Glencove. All summer Cassia.
- 78 *E. euterpe* Mén. LITTLE SULPHUR. Wayne Co, rare, *Wiggins*; Pittsford, *Boughton*; Buffalo (EPV); Yonkers; Bronxville; **SI**: Fox Hills; **LI**, locally common: Flushing, Jl 23, Aug 5, Sep 22, Coram, Sep 4, Jamaica, Jl 16 (Bell); Brooklyn. Cassia.

FAMILY LYCAENIDAE<sup>94</sup>

## ATLIDES Hübner

- 334 *A. halesus* Cr. **LI**: Brooklyn, a stray from the Tropics. Oak.

## STRYMON Hübner

(*Uranotes* Scudder, *Thecla*)

- 345 *S. columella* Fab. (*eurytulus* Hbn., *ocellifera* Grt.). E. Aurora (Scud); Buffalo. Both strays from the South. Jl.
- 352 *S. melinus* Hbn. (*humuli* Harr.). Keene Val., *Not*; Wilmington; Rochester (Angle); Bethlehem; **SI**, May-Sep (Ds); **LI**: Wyandanch, Ap 29, May 14, Flushing, Je 30, Sep 16, Coram, Sep 4, Hempstead, Sep 5 (Bell); Amagansett; Greenport. *Lespedeza hirta* and other legumes (Wat); reported also from hops, probably in error.

<sup>94</sup> Most of the larvae in this family are feeders on flowers and fruits.

- 355 *S. autolytus ontario* Edw. Ithaca, Je 24 (CU).
- 358 *S. titus* Fab. Fentons; New Russia, *Jones*; E. Aurora, Allegany Pk. (Wild); Lancaster; Buffalo; Ithaca; McLean; Karner; Albany, *Cook*; Bethlehem; Riverdale; NYC; **SI**; **LI**, locally common: Flushing, Je 29, Oakdale, Jl 4 (Bell); Aqueduct; Yaphank. Jl-Aug. Wild cherry.
- 359 *S. acadica souhegan* Whitney. Keene Val., *Not*; Chilson L. (Wat and Cook); Rochester; Buffalo and vic. (EPV); Allegany Pk. (Wild); Stony Clove (Wat and Coleman); Boiceville (Blackburn); Karner; Bethlehem; Kingston; Gloversville (*Alex*); Sacandaga Pk. (Alex); Albany, *Cook*; Rhinebeck; Callicoon (Ds); Greenwood L., *Joutel*; Van Cort. Pk., one specimen (W.P.Comstock). Je-Jl. *Salix discolor*.
- S. acadica* ab. *swetti* Wat. & Comstock. Stony Clove, Jl 10 (Wat).
- 363 *S. edwardsi* Saund. Keene Val., abundant (*Not*); Ithaca; Minnewaska; Oneonta; Karner; Albany; Bethlehem; Greenwood L.; Ramapo, Jl (Ds); **LI**: Brooklyn; Yaphank, Jl 13 (Ds). Jl-Aug. Oak.
- 365 *S. calanus* Hbn. Rochester (Angle); Buffalo; E. Aurora (Wild); Castile, *Brad*; Ithaca; Kaaterskill; Sharon Sps.; Karner; Albany, *Cook*; Bethlehem (Lint); Esopus; Ft. Montgomery, Callicoon (Ds); Greenwood L.; **SI**; **LI**, locally common: Flushing, Je 28, Farmingdale, Jl 3, Kings Pk, Jl 27 (Bell); Half Way Hollow Hills, Wading R., Aug (Ds); Yaphank. Je-Aug. Hickory, butternut, and oak.
- 367 *S. liparops strigosa* Harr. This species is easily confused with forms of *S. calanus*. I have seen specimens from Ithaca, NYC, and Massapequa, LI. It is reported also from: Fentons; New Russia, *Jones*; Keene Val., abundant, *Not*; Rochester (Angle); Lockport (Lint); E. Aurora, *Dnd*, *Wild*; Karner; Bethlehem, E. Jewett (Ds); all very probably correct; **LI**: Kings Pk., Jl (Bell); Riverhead (Ds). Jl. *Vaccinium corymbosum* (Wat) and chokecherry (Wild).

## MITOURA Scudder

- 377 *M. damon* Cr. GREEN HAIR-STREAK. Clayton; Taughannock; Ithaca; Ramapo (Ds); NYC; **SI**, May 8, 1881, *Lg* (Ds); **LI**, local in its distribution: Brooklyn; Coram, May 15, Je 10, Wyandanch, May 28 (Bell); Orient, *Lath*; Riverhead (Ds). May-Je; end Jl-Aug. Will probably be found general and not rare wherever its food, the red cedar, grows. The only definite record for form *patersonia* Brehme is Van Cort. Pk., Jl (Wat and Comstock).

## INCISALIA Minot

- 379 *I. augustus* Kby. Plattsburg; McLean; Karner (Lint); Albany (Cook); **SI**; **LI**, very common in the pine-barren district: Central Pk., Ap 19, Wyandanch, May 28, Coram, Je 10 (Bell). May-early Je. *Vaccinium* and *Kalmia*.
- 381 *I. irus* Godt. Karner (Lint); Albany (Cook); **SI**; **LI**: Flushing (W.J.Hamilton, Jr.); Coram, May 6; Central Pk., Je 4 (Bell); Wyandanch, Yaphank (Ds). This species is doubtless widespread and not rare, but records are so confused with *I. henrici* and *I. folios* that I have not dared to use them. Ap-May. Wild indigo and lupine (Wat).
- 383 *I. henrici* G. & R. Karner; Albany (*Cook*); Schenectady, *Harry Cook*; Greenwood L. (Ds). Doubtless widespread, but confused with *T. irus*. May. *Vaccinium*.

- [385] *I. polios* Cook & Wat. I have seen no NY records for this species, which certainly occurs, passing for *henrici*. End of Ap and early May. Arctostaphylos.]
- 388 *I. niphon* Hbn. Plattsburg; Keene Val., *Not*; Portage; Windsor, *Not*; Ithaca; McLean; Karner; Albany; Bethlehem; **SI**, 1881 (Ds); **LI**, locally distributed in the pine barrens: Central Pk., Ap 19, Wyandanch, May 28, Oakdale, Je 4 (Bell); Brooklyn; Massapequa, Yaphank, Wading R. (Ds). May-early Je, also Ap on LI. Pitch pine.

## ERORA Scudder

- 393 *E. laeta* Edw. EARLY HAIR-STREAK. Keene Val., *Not*; Cortland, *Wickwire* (Angle); Ithaca (*Eyer*-CU); Catskills (Edw). May; JI.

## FENISECA Grote

- 396 *F. tarquinius* Fab. THE WANDERER. Wilmington; Elizabethtown; Beedes, Essex Co; Keene (Wild); Elk L.; Sand L.; Rochester, fairly common and local (Angle); Buffalo (Wild); Castile, *Brad*; Binghamton; Ithaca; McLean; Raven Pass; Gloversville; Bethlehem, Karner (Lint); Albany (*Cook*); Rensselaer; Croton-on-Hudson (Ds); Katonah; **SI**; **LI**: Oakdale, JI 1 (Bell); Brooklyn Bot. Garden, Aug-Sep (Eng); Yaphank, Sep 3, 1910 (Ds); Orient Pt., Aug 2, 1913 (Ds); Grasmere. All summer, at least three broods. Mealy bugs or alder blight (*Schizoneura*) on alder.

## HEODES Dalman

(*Chrysophanus* Hübner)

- 404 *H. thoë* Bdv.-Lec. LARGE COPPER. Keene Val. (*Not*); Mooers (*Not*); Fentons; Clayton; Rochester, *Angle*; E. Aurora, Buffalo (Wild); Oak Orchard Swamp; Ithaca; McLean; Oneonta; Gloversville (*Alex*); Saratoga; Karner; Bethlehem; Callicoon (Ds); **SI**; **LI**, not overly common, found in or close by damp meadows, sometimes in fair numbers: Flushing, May 28, Je 30, JI 16, Aug 7, Sep 16, Jamaica, JI 16 (Bell); Brooklyn; Aqueduct. Je-Sep. Local in wet places. *Rumex crispus*; reported also from Polygonum.
- 409 *H. epixanthe* Bdv.-Lec. SMALL COPPER. Keene Val. (NYS); Buffalo (EPV); McLean (on the bogs only); L. Ontario shore; **LI**: Yaphank, Manorville, Amagansett, Montauk, Je-JI (Eng). JI-Aug. Cranberry..
- 410 *H. hypophlaeas* Edw. COMMON COPPER. Very common everywhere. **LI**; generally distributed and usually very common: Flushing, May 8, Aug 2, Sep 16, Jamaica, Je 18, Farmingdale, JI 3, Oakdale, JI 4, Coram, Sep 10 (Bell). May-Aug. Sorrel.
- H. hypophlaeas* ab. *fasciatus* Strk. Rochester, *Franck* (Angle); **SI**, May-Oct (Ds); **LI**: Flushing, May 21, JI 2 (Bell); Amagansett.
- H. hypophlaeas* ab. *obsoletus* Scud. **LI**: Glendale, Aug 26, 1923, *J.B.Mesle*.
- H. hypophlaeas* ab. *fulliolus* Hulst. Orchard Pk., May 3 (Wild).

## EVERES Hübner

- 424 *E. comyntas* Gdt. TAILED BLUE. Common everywhere. **LI**, generally distributed and very common: Flushing, May 8, Aug 2, Sep 16, Oakdale, Je 12, Hempstead, JI 3, Central Pk., May 3 (Bell). All summer, two broods. Larvae on flowers of *Lespedeza* and other legumes.

## PLEBEIUS Linnaeus

(Rusticus Hübner)

- 426 **P. scudderi** Edw. Clayton; Adirondacks; Karner (div.); Albany (Cook). May-Je; Jl-Aug. *Lupinus perennis* (Wat).

## GLAUCOPSYCHE Scudder

(Nomiades)

- 449 **G. lygdamus** Dbl. Ithaca, May 17, 1914, female (Eyer); Binghamton. May. Probably a leguminous feeder.

## LYCAENOPSIS Felder

(Cyaniris)

- 452 **L. argiolus pseudargiolus** Bdv.-Lec. (*ladon* auct.). Common everywhere. **LI**: Flushing, Ap 21, Jl 30, Aug 13, Sep 13, Kings Pk., May 9, Jamaica, Je 18, Coram, May 15 (Bell). Ap-Aug. General on flowers, but especially on *Viburnum acerifolium* and *Cornus florida* (Wat).  
**L. argiolus pseudargiolus** form *lucia* Kby. Reported from: Potsdam; Buffalo; Karner; Albany; West Pt.; Newburgh; Yonkers to **SI**; **LI**: Wyandanch, May 6, 1911 (Ds); Central Pk.; Glendale. Ap.  
**L. argiolus pseudargiolus** form *marginata* Edw. N. Fair Haven; Rochester; Ithaca; Yonkers; **SI**; **LI**: Kings Pk., May 9, Flushing, Je 29 (Bell). Ap-May.  
 The other forms are too confused to make records trustworthy, May-Aug.

## FAMILY ERYCINIDAE

(Riodinidae)

## CALEPHELIS Grote and Robinson

- 329 **C. borealis** G. & R. NORTHERN METAL-MARK. Upper Coldenham, Orange Co, is the northern record for the species and family. May; Jl.

## FAMILY NYMPHALIDAE

## SUBFAMILY LIBYTHEINAE

## HYPATUS Hübner

- 320 **H. bachmani** Kirt. SNOUT BUTTERFLY. Van Cort. Pk. (Wat); Central Pk., NYC (Coleman); **SI**; **LI**: Center I., Oyster Bay, Aug 15, 1896 (Ds); Dyker Meadows, Brooklyn, Aug 9, 1908 (Shoe); Coram, Je 10; Kings Pk., Jl 20 (Bell); Bay Ridge; Woodhaven. *Celtis*.

## SUBFAMILY DANAINAE

## DANAUS Linnaeus

- 84 **D. archippus** auct. (*Anosia plexippus* L.). MILKWEED BUTTERFLY. Common everywhere, but probably only as a migrant, not wintering in the State. **SI**, Ap 25, earliest date (Ds); **LI**, generally distributed and sometimes



very common: Flushing, May 21, Je 4, J1 2, Aug 13, Sep 10, Oct 12, Hempstead, J1 3, Oakdale, J1 4 (Bell). J1-Sep, two broods northward. Milkweed.

## SUBFAMILY SATYRINAE

## ENODIA Hübner

- 90 **E. portlandia** Fab. (*Debis*). New Russia; Keene Val., *Not*; Clayton; Newcomb; Mendon (Deveson); Allegany Pk. (Wild); Ithaca; McLean; Cortland, *Wickwire*; Ulster Co; West Pt.; Sloatsburg (Cook); Pocantico Hills. Je-J1. Grass.

## SATYRODES Scudder

- 100 **S. canthus** L. Essex Co; L. Waccabuc; Fentons; Clayton; Fulton; Rochester (Deveson); Buffalo (Wild); E. Aurora; Squaw I.; Potter Swamp; Ithaca; Freeville; McLean; Oneonta; Gloversville, Sacandaga Pk. (Alex); Hebron, *Wls*; Karner; Ushers; Durlandville; Crugers; Yonkers; Bronxville; **SI**; **LI**, locally common: Flushing, J1 2 and 27, Oakdale, J1 10 (Bell). J1. Coarse swamp grass.

## CISSIA Doubleday

(*Neonympha*)

- 97 **C. eurytus** Fab. Common everywhere. Black Br.; Fentons; Clayton; Rochester; Wayne Co; Niagara Falls; Buffalo; Rock City; Egleston's Glen; Portage; Ithaca; Oneonta; Kaaterskill; Greenwood L.; Karner; Albany; Bethlehem; Stuyvesant Falls; Katonah; **SI**; **LI**, locally common: Coram, May 22, Huntington, Je 5, Farmingdale, J1 3, Kings Pk., Aug 13 (Bell); Wading R.; Gardiners I. End of Ap-Sep, two broods. Grass.

## CERCYONIS Speyer

- 111 **C. alope** Fab. (*Satyrus*). BLUE-EYED SATYR. The typical form is mainly southern, reported from: Essex Co; Fentons; Chain Lakes; Rochester, rarer than var. *nephele*; Lancaster; Buffalo; Liberty; Lexington; Ulster Co; Sharon Sps.; Oneonta; Schoharie; Gloversville, Sacandaga Pk. (Alex); Hebron, *Wls*; Karner; Stuyvesant Falls; Katonah; **SI**; **LI**, locally common: Farmingdale, J1 3, Flushing, J1 30, Kings Pk., Aug 13, Coram, Sep 4 (Bell); Gardiners I. (Ds). The records from the Adirondacks should be verified. The form has often been sought at Ithaca without success. J1-Aug. Grass.
- 111c **C. alope nephele** Kby. BLIND-EYED SATYR. This northern form is known from: Waddington; Wilmington; Long L.; Fentons; Clayton; Geneva; Rochester; Scriba; Buffalo; Otto; Allegany Pk.; Ithaca; McLean; Sullivan Co, above 1000 ft.; Lexington; Hunter; Onteora Mt.; S. Jefferson; Summit; Sharon Sps.; Schoharie; Bethlehem. Skinner's record from NYC must have been a stray.
- 111a **C. alope maritima** Edw. occurs on **SI** and at Yaphank, **LI**, but the latter specimens are hardly typical.

SUBFAMILY HELICONIINAE

DIONE Hübner

- 150 *D. vanillae* L. GULF FRITILLARY. Upper Twin L.; Central Val., *Carleen Maley* (Felt). A stray from the South.

SUBFAMILY NYMPHALINAE

EUPTOIETA Doubleday

- 151 *E. claudia* Dru. VARIEGATED FRITILLARY. Lancaster (EPV); Pittsford, *Boughton*; Buffalo; Ithaca, Sep (*Philip Miller*); Oneonta; NYC (div.); **SI**; **LI**, not common: Aqueduct (Wat); Flushing, J1 29, Sep (Bell); Woodhaven (Pears); Rockaway Beach (Ds); Wading R., May 31, 1914 (Ds); Brooklyn, larvae on pansy plants, J1-Aug (Eng). A stray from the South. Aug. Passion flower; rarely *Sedum* (Wat) and violet.

ARGYNNIS Fabricius

(*Speyeria* Scudder)

- 153 *A. idalia* Dru. Binghamton (Blackburn); Hebron (Wls); Karner; Hudson Falls (Alex); Albany (Cook); Bethlehem (Lint); Boiceville (Blackburn); Nyack; Van Cort. Pk. (Wat and Coleman); **SI**; **LI**, locally common: Hempstead, J1 3, Flushing, J1 23, Aug 13, Coram, Sep 10 (Bell); Brooklyn; Aqueduct; Montauk, Riverhead, Gardiners I. (Ds). Local in wet places, and will probably prove more widespread. J1-Sep. Violets.
- 158 *A. cybele* Fab. Mt. Whiteface; Waddington; Fentons; Long L.; Clayton; Rochester; Buffalo; E. Aurora; Allegany Pk.; Oak Orchard Swamp; Ithaca; McLean; Binghamton; Pittsfield; Oneonta; Hunter; Onteora Mt.; Shelving Rock; Glen, Warren Co; Schoharie; Gloversville; Bethlehem; Cropseyville; Newburgh; Greenwood L.; Katonah; **SI**; **LI**, common: Flushing, Je 16, J1 9, Aug 5, Oakdale, J1 4, Hempstead, J1 3 (Bell); Brooklyn. J1-Sep. Violets.
- 159 *A. aphrodite* Fab. Everywhere in the State from the Adirondacks and Buffalo to **SI**. Commoner northward than *A. cybele*. **LI**: Flushing, J1 30 (Bell); Richmond Hill (Doll). Franck reports the Mississippi Val. form, *alcestis* Edw., from Sullivan Co, probably in error. J1-Aug. Violets.
- 162 *A. atlantis* Edw. Keene; Ausable Chasm; Wilmington; Mt. Marcy and vic.; Newcomb; Saranac Inn; Long L.; Chain Lakes; Fentons; Glen, *Meske*; Buffalo (EPV); E. Aurora (*Dnd*); Allegany Pk.; Ithaca; McLean (Fbs); Deposit; Warners L. (Cook); Stuyvesant Falls; Slide Mt.; Stony Clove; Onteora Mt.; Mountain L., Johnstown (*Alex*). J1-Aug. Violets.

BRENTHIS Hübner

- 187 *B. myrina* Cr. LITTLE SILVER-SPOT. St. Lawrence R. and Buffalo to **LI**; common in wet places. **LI**, common in damp meadows: Flushing, May 26, Je 4, J1 2, Aug 2, Sep 16, Oakdale, Je 19 (Bell); Yaphank. Je-Sep. Violets.

- 199 **B. bellona** Fab. MARSH FRITILLARY. Everywhere with the preceding species. Specimens from the Appalachian highlands (Rock City) are lighter than usual. May-Sep. Violets.

## EUPHYDRYAS Scudder

- 203 **E. phaëton** Dru. THE BALTIMORE. Fentons; Keene; Rochester; Conesus L.; E. Aurora; Elma; Colden; Ithaca; McLean; Vestal; Oneonta; Sand L.; Raven Pass; Karner; Ulster Co; Gloversville; Dutchess Co; **SI**; **LI**, common in damp meadows: Flushing, May 28, Je 4, Jl 15, Jamaica, Jl 15 (Bell). Common, though decidedly local in wet places. Je-early Jl. Turtlehead.

**E. phaëton** ab. *superba* Strk. **LI**: Brooklyn (type).

**E. phaëton** ab. *phaëthus* Hulst. **LI**: Brooklyn (type).

**E. phaëton** ab. *streckeri* Ellsworth. Vestal (type).

## CINCLIDIA Hübner

- 228 **C. harrisii** Scud. (*ismeria* of Harr.). HARRIS' CHECKER-SPOT. Black Br.; Chilson L. (Wat and Cook); Whiteface; N. Brookfield, *Not*; Rock City; Potter Swamp; McLean; DeBruce; Raven Pass; Karner, *Lint*; Albany, *Cook*; Sloatsburg (Wat); N. Westchester Co (*W.C.Wood*); Bedford; **LI**: Brooklyn. The last two records should be verified. Late Je-early Jl. *Aster umbellatus*.

## CHARIDRYAS Scudder

- 243 **C. nycteis** Dbl. & Hew. SILVER CRESCENT. Whiteface; Fentons; Keene; Clayton; Rochester; Buffalo; Gowanda; E. Aurora; Ithaca; Oneonta; Ulster Co; Gloversville (*Alex*); Karner; Albany; Greenwood L.; Sloatsburg; Van Cort. Pk.; **LI**: Yaphank, May 30, 1911 (Grossbeck); Woodhaven, Je 7, 1919 (J. Kaiser). Usually common where it occurs. Jl. *Helianthus* spp., especially *H. divaricatus*, and occasionally on aster (Wat).

## PHYCIODES Hübner

- 247 **P. tharos** Dru. PEARL CRESCENT. Essex Co; Fentons; Honeoye Falls; Buffalo; Otto; Rock City; Potter Swamp; Ithaca; McLean; Oneonta; Hunter; Karner; Bethlehem; Stuyvesant Falls; Poughkeepsie; **SI**; **LI**, very common: Flushing, May 7, Aug 2, Oct 1, Oakdale, Je 12, Jamaica, Jl 16, Coram, Sep 4 (Bell); Yaphank. The preceding are representative records; the species occurs everywhere. May-Oct. Aster.

**P. tharos** ab. *reaghi* Reiff. **LI**: Flushing, Aug 10, 1918 (Bell).

- 248 **P. batesii** Reak. BATES' CHECKER-SPOT. Black Br.; Fentons; Keene Val. (NYS); between Chilson L. and Paradox L. (Cook); Gowanda; Rock City; Crosby; W. Danby (a suffused aberration); Ithaca; Schoharie; Sharon Sps.; Gloversville (*Alex*); Bethlehem; Karner, *Lint*; Albany, not now found (Cook); Hunter; **LI** (Bt), but probably in error. Je-Jl, one brood, at any given place flying between the two broods of *P. tharos*. *Aster undulatus*.

POLYGONIA Hübner

- 268 **P. interrogationis** Fab. THE SEMICOLON. Newport (NYS); N. Fair Haven; Centerport; Buffalo; E. Aurora; Rock City; Oneonta; Ithaca; Catskills; Ballston Spa (NYS); Coeymans; Stuyvesant Falls; NYC; **SI; LI:** Flushing, May 11, Je 20, Jl 30, Aug 15, Sep 16, Oct 5, Farmingdale, Jl 3 (Bell). The form *umbrosa* Lint. is definitely known from: Rochester; E. Aurora; Buffalo; Ithaca; McLean; Oneonta; Gloversville, Sacandaga Pk. (*Alex*); Albany; Bethlehem; **LI:** Woodhaven, Central Pk. Two broods, one in midsummer, the other emerging in the fall and overwintering. Elm, hop, and Celtis.
- 269 **P. comma** Harr. HOP MERCHANT. Fentons; Clayton; Geneva; Buffalo; E. Aurora; Irving; Portage; Ithaca; McLean; Oneonta; Catskills; Schoharie; Gloversville; Bethlehem; Hebron, *Wls*; Albany; Rensselaer; NYC; **SI; LI:** Brooklyn; Flushing, Jl 14, Aug 12, Sep 16, Oct 1 (Bell); Gardiners I. Var. *dryas* Edw. reported from: Rochester; Buffalo; E. Aurora; Allegany Pk.; Ithaca; Oneonta; Catskills, Ulster Co; Schoharie; Albany; Katonah. Jl; winter. *Urticastrum divaricatum*, and less commonly on elm and hop (Wat).
- 271 **P. faunus** Edw. GREEN COMMA. Wilmington; Mt. Whiteface; Raquette L.; Elk L.; Fentons; Jay; L. Pleasant; Hamburg; Buffalo (EPV); Allegany Pk. (Wild); Cortland, *Wickwire*; Sidney; Debruce; Raven Pass, Catskills; Gloversville (*Alex*); Schoharie. Birch, willow, currant, etc.<sup>95</sup>
- 275 **P. gracilis** G. & R. Keene Val. (NYS).
- 277 **P. progne** Cr. GRAY COMMA. Jay; Mt. Whiteface; Fentons; Geneva; Rochester; Buffalo; Otto; E. Aurora; Allegany Pk.; Rock City; Ithaca; Oneonta; Onteora Mt.; Debruce; Cambridge; Schoharie; Bethlehem; Esopus; Ft. Montgomery; Sloatsburg; Big I., Pine I., Woodbury Falls (Wat); Van Cort. Pk.; **SI; LI:** Flushing, Je 23, Aug 11 (Bell); Brooklyn. Currant and gooseberry.
- P. progne** form **l-argenteum** Scud. Ft. Montgomery, Je 24-Jl 4 (Wat and Hall); Sloatsburg, Jl 3 (Wat).

AGLAIS Dalman

(*Vanessa* Fabricius in part)

- 278 **A. j-album** Bdv.-Lec. LARGE TORTOISE-SHELL. Plattsburg; Wilmington; Jay; Elk L.; Fentons; Newport (NYS); N. Elba (Wat and Coleman); Rochester (Angle); E. Aurora (Wild); Clayton; Lancaster, Buffalo (EPV); Allegany Pk. (Angle); Ithaca; Cortland, *Wickwire*; Shelving Rock, L. George; Edgewood (Wat and Coleman); Debruce (Ds); Onteora Mt.; Gloversville and vic. (*Alex*); Corinth; Karner; Albany; Sloatsburg; Croton-on-Hudson (Ds); NYC (div.); **SI; LI:** Flushing, Ap 7 (Bell); Glendale (Kch); Yaphank, Oct 1 and 2, 1910 (Ds); Maspeth (Ols); Brooklyn. Sep-Jl, one brood. Birch.
- 280 **A. milberti** Gdt. SMALL TORTOISE-SHELL. Ausable Chasm; Canton; Long L.; Fentons; Rochester (Angle); Buffalo; E. Aurora (Wild); Portage; Potter Swamp; Ithaca; Binghamton; Marathon; Catskills; Callicoon (Ds); Oneonta; Schoharie; Gloversville; Canajoharie; Lebanon Sps.; Hebron; Hudson; NYC; **SI; LI:** Flushing, Jl 28 (Bell); Brooklyn; Astoria; Seacliff; Wyandanch. All the season, three broods. Nettle.

<sup>95</sup> *P. satyrus* Edw. was reported from Fentons, collected by Hill, doubtless in error for *P. faunus*.

- 281 **A. antiopa** L. MOURNING CLOAK or YELLOW EDGE. Very common everywhere. **LI**, generally distributed and common, may be found hibernating throughout the winter: Flushing, Mar 26, Ap 7, May 8, Aug 2, Oct 22, Nov 19, Port Washington, Je 26, Farmingdale, J1 3, Kings Pk., Sep 4 (Bell). The ab. *hygiaea* Heyd. has been taken at Rochester, Albany (Scud), and Morrisania, NYC (Wat). All the year, two broods. Elm, willow, etc.

#### VANESSA Fabricius

- 282 **V. atalanta** L. RED ADMIRAL. Common everywhere in the State. **LI**, generally distributed, some years very common, other years scarce: Flushing, Je 30, J1 23, Aug 18, Oct 5 (Bell). J1-Aug; Sep-Je. Nettles, rarely elm, etc.
- 283 **V. virginienensis** Dru. (*huntera* Fab.). PAINTED BEAUTY. Saranac Inn; Mt. Marcy; Clayton; N. Fair Haven; Rochester; Buffalo; Allegany Pk.; Ithaca; Oneonta; Ulster Co; Schoharie; Castleton; Gloversville; Hebron; Bethlehem; Katonah; **SI**; **LI**, generally distributed and usually common: Flushing, May 26, Aug 13, Jamaica, Je 18, Oakdale, J1 4, Coram, Sep 5 (Bell). Common everywhere, but rarely as common as the other two *Vanessas*. Everlasting.
- 284 **V. cardui** L. PAINTED LADY. Very common all over the State. **LI**: Flushing, J1 13, Sep 13 (Bell). Thistle, burdock, etc.

#### JUNONIA Hübner

(*Precis* in part)

- 286 **J. coenia** Hbn. BUCK-EYE. Wayne Co, *Wiggins*; Lancaster (EPV); Buffalo; Squaw I.; Newburgh; Bronxville; **SI**; **LI**, common: Flushing, May 26, Je 30, J1 30, Aug 13, Sep 29, Oct 5 (Bell); Brooklyn; Jamaica; Newtown; Corona; Bellmore; Rockaway; Aqueduct; Orient, *Lath*. All summer, several broods. Gerardia and other Scrophulariaceae.

#### BASILARCHIA Scudder

- 304 **B. astyanax** Fab. RED-SPOTTED PURPLE. General in the southern part of the State, replaced by *B. arthemis* northward: E. Aurora; Cattaraugus; Shandaken; West Kill; Catskills; Schoharie; Gloversville; Karner; Albany; Bethlehem; Stuyvesant Falls; Poughkeepsie; Pine I.; **SI**; **LI**, generally distributed and common: Jericho, May 29, Flushing, Je 9, Aug 2, Sep 16, Farmingdale, J1 3 (Bell); Brooklyn; Gardiners I. Wild cherry, etc.
- B. astyanax** form *albofasciata* Newc. This form is very close to *arthemis* in appearance, and not usually separated from it, but in distribution is associated rather with *astyanax*. Definite records are: Rochester (Angle); **SI** (Fulda); **LI**, not common: Flushing, Aug 5, 1922 (Bell); Glendale (*Kch*). Part of the *arthemis* records probably should be credited to this form.
- 305 **B. arthemis** Dru. WHITE ADMIRAL. Elizabethtown; Big Moose; Mt. Marcy; N. Elba (Wat and Coleman); Newcomb; Keene (Wild); Fentons; E. Aurora; Buffalo; Allegany Pk. (Wild); Rock City; Ithaca; Raven Pass; Hunter; Onteora Mt.; Big Ind. Val.; Lexington; Oneonta;



Edgewood (Wat and Coleman); Schoharie; Mountain L., Johnstown (*Alex*); Karner; Bethlehem; Catskill. Je-Jl. Black and yellow birch, basswood (Wat), and willow.

- B. arthemis** form *proserpina* Edw. N. Elba, scarce (Wat and Coleman); Rochester, Honeoye Falls, Buffalo (Angle); Jamestown (Wild); Rock City; Riceville (Wild); Ithaca; McLean; Catskills; Andes; Hebron (Wls); Edgewood, relatively common (Wat and Coleman). A report from LI is certainly in error. Je-Jl.

- 308 **B. archippus** Cr. (not *archippus* Fab.). THE VICEROY. Common throughout the State. LI, common: Flushing, Je 4, Jl 9, Aug 2, Sep 16, Oakdale, Je 19, Hempstead, Sep 5 (Bell). The var. *pseudodorippus* Strk., which is probably *archippus*  $\times$  *astyanax*, was taken in the Catskills. Je-Sep. Willow, rarely poplar.

- B. archippus** form *lanthanis* Cook & Wat. Rochester (Angle); Albany (Cook); Pearl R. (Wat). Transitional specimens occur generally.

### APATURA Boisduval-LeConte

(*Chlorippe* Boisduval, *Doxocopa*)

- 311 **A. celtis** Bdv.-Lec. LI, formerly (Doll) reported by Angle. Celtis.

- 313 **A. clyton** Bdv.-Lec. THE EMPEROR. Esopus; Newburgh; NYC, Jl 15, form *proserpina* Scud., L. Johnson; SI; LI: Hempstead, Jl 3, 1921 (Bell). Celtis.

## ORDER DIPTERA

Edited by O. A. JOHANNSEN

The original draft of the list of Diptera was completed more than twelve years ago. It was based in large part on the specimens in the Cornell University collection and in the State Museum at Albany, and on published records. When Dr. M. D. Leonard assumed the editorship of the list of the insects of New York, and the prospect for publication became brighter, the parts relating to some of the families were sent to specialists and later the entire list of Diptera was submitted to C. W. Johnson and Dr. Joseph Bequaert. Many additional records were thus obtained. Acknowledgment to the various entomologists who have helped to make the list more complete, is made in the appropriate places.

The classification followed, in the main, is that given in Comstock's *Introduction to Entomology*. The arrangement of families and genera, with slight modifications, is that of Johnson's *List of the Diptera of New England*. Bibliographical references are not made, owing to the limitations of space. The reader is referred to Aldrich's catalog of the Diptera for those prior to 1905, and to Johnson's list for the more important recent ones. Synonymy is given only in a few cases, where otherwise a misunderstanding might arise.

FAMILY TANYDERIDAE <sup>96</sup>

COMPILED BY C. P. ALEXANDER

## PROTOPLASA Osten Sacken

*P. fitchii* O.S. Fulton Co, Je, 1909 and 1924 only, a total of ten specimens (*Alex*).

## FAMILY PTYCHOPTERIDAE

## SUBFAMILY PTYCHOPTERINAE

## PTYCHOPTERA Meigen

*P. rufocincta* O.S. Dunkirk, Jl; Fulton Co, Je-Aug; Manlius, Aug; Batavia; Erie Co, Je-Aug; Ithaca, May-Jl; Portage Falls; Hudson R. Val., May; **LI**: Wyandanch, May-Je, *Ds* (*Jn*).

## SUBFAMILY BITTACOMORPHINAE

## BITTACOMORPHA Westwood

*B. clavipes* Fab. Adirondacks, L. George; Essex Co; Fulton Co; Brookview; Erie Co; Manlius; Ithaca; Poughkeepsie; **LI**, etc. May-Sep.

## BITTACOMORPHELLA Alexander

*B. jonesi* Jn. Fulton Co; S. Wales; Ithaca; Taylor; Karner; Brookview; Je-Jl.

## FAMILY ANISOPODIDAE

(*Rhyphidae*)

## SUBFAMILY ANISOPODINAE

(*Rhyphinae*)

## ANISOPUS Meigen

(*Rhyphus* Latreille)*A. alternatus* Say. Foot of Cliff Mt., Essex Co (Beq); Speculator, Wells, Je-Jl, *Yg* (Leon); Keene Val., Aug (Leon); Axton; E. Aurora; Ithaca; Albany, Ap-Je (NYS).*A. fenestralis* Scop. Hamburg; Ithaca; New Hartford, Ap-May, *Yg* (Leon); Albany, Sep (Leon); Nassau, Je (Leon).*A. punctatus* Fab. Speculator, Je-Aug, *Yg* (NYS); Newport, Je, *Yg* (NYS); Ilion, May, *Yg*; Johnstown, Aug (Leon); Erie Co; Ithaca, May-Oct; Nassau, May (Leon); Corinth, Je, *Yg*; Clinton Hgts., Ap (NYS); Albany, May-Jl (NYS); Normanskill, May (NYS).

## SUBFAMILY AXYMYINAE

## AXYMYIA McAtee

*A. furcata* McAtee. Ithaca (Snn).<sup>96</sup> The list in this and in the families Ptychopteridae, Anisopodidae, Trichoceridae, and Tipulidae, commonly called the crane-flies, has been prepared by Dr. C. P. Alexander. All determinations are to be credited to him unless otherwise indicated.

## SUBFAMILY MYCETOBIINAE

## MYCETOBIA Meigen

*M. divergens* Wlk. Ithaca, May (Joh); Albany.

## FAMILY TRICHO CERIDAE

## TRICHOCERA Meigen

*T. bimaculata* Wlk. Fulton Co, Sep; Erie Co, Oct; Ithaca and vic., Oct, May.

*T. brumalis* Fitch. Fulton Co; Ithaca, Sep-Oct.

## DIAZOSMA Bergroth

*D. subsinuata* Alex. Fulton Co, Je; Albany Co, near Altamont, Je (*Crampton*).

## FAMILY TIPULIDAE

## SUBFAMILY LIMONIINAE

## Tribe LIMONIINI

## DICRANOMYIA Stephens

*D. adirondacensis* Alex. Keene Val., Sep.

*D. badia* Wlk. Hamilton, Fulton, Schoharie, Erie, Herkimer, Niagara, Tompkins, and Cortland Counties; **LI**. Ap-Oct.

*D. brevivena* O.S. Herkimer, Fulton, Erie, Niagara, and Cayuga Counties. Je-Oct.

*D. gladiator* O.S. Fulton Co, Aug.

*D. globithorax* O.S. Fulton Co, Aug; Erie and Tompkins Counties. May-Sep.

*D. haeretica* O.S. Buffalo, Oct; vic. NYC; **LI**, Jl-Oct.

*D. halterata* O.S. Fulton Co, Sep.

*D. immodesta* O.S. Adirondacks; Essex Co; Fulton Co; N. Fair Haven; Buffalo; Taylor; Ithaca; Rensselaer Co, Brookview, Je. Je-Oct.

*D. liberta* O.S. Fulton, Essex, Herkimer, Erie, Tompkins, Cortland, Onondaga, Albany, Rensselaer, and Westchester Counties; **LI**. Je-Sep.

*D. longipennis* Schum. Erie and Fulton Counties; Trenton Falls; Ithaca; W. Nyack; **LI**, etc. Je-Sep.

*D. macateei* Alex. Fulton and Essex Counties. Je-Jl.

*D. moniliformis* Doane. **LI**.

*D. monticola* Alex. Hamilton, Fulton, Chenango, and Cortland Counties. Je-Jl.

*D. morioides* O.S. Herkimer, Fulton, Tompkins, and Erie Counties. Je-Jl.

*D. pubipennis* O.S. Hamilton, Fulton, Erie, Tompkins, Cortland, Chenango, Rensselaer, and Westchester Counties. May-Sep.

*D. pudica* O.S. Fulton, Erie, Tompkins, Cortland, Chenango, and Schenectady Counties. May-Jl.

*D. rara* O.S. Genesee Co, Sep; Westchester Co, Je.

*D. rostrifera* O.S. Fulton and Cayuga Counties. Je-Sep.

*D. simulans* Wlk. Fulton, Herkimer, Erie, Tompkins, Cortland, Albany, Rensselaer, and Westchester Counties. May-Nov. **LI**, Jl.

*D. stulta* O.S. Herkimer, Fulton, and Tompkins Counties. Je.

## GERANOMYIA Haliday

- G. diversa* O.S. Herkimer, Erie, and Tompkins Counties. Aug.  
*G. canadensis* Westw. Herkimer and Fulton Counties, Je; Erie Co, Je-Sep;  
 Onondaga Co, Aug; Tompkins Co, May-Oct.  
*G. rostrata* Say. Fulton, Tompkins, and Cayuga Counties. May-Sep.

## RHIPIDIA Meigen

(Subgenus **MONORHIPIDIA** Alexander)

- R. fidelis* O.S. Fulton, Essex, Erie, Tompkins, Cortland, Albany, and Schoharie Counties. May-Jl.

(Subgenus **RHIPIDIA** Meigen)

- R. bryanti* Jn. Erie Co, Je.  
*R. maculata* Meig. Adirondacks; Essex, Fulton, Chenango, Cortland, and Tompkins Counties. Je-Aug.

## LIMONIA Meigen

(*Limnobia* Meigen)

- L. cinctipes* Say. Adirondacks; Essex, Fulton, Onondaga, Erie, Cattaraugus, Chenango, and Tompkins Counties. May-Aug.  
*L. fallax* Jn. Tompkins and Genesee Counties. May-Jl.  
*L. hudsonica* O.S. Erie Co, Je (MCV).  
*L. immatura* O.S. Essex, Fulton, Herkimer, Erie, Tompkins, and Albany Counties. Je-Jl.  
*L. indigena* O.S. Adirondacks; Essex, Fulton, Onondaga, Erie, Niagara, Cattaraugus, Tompkins, and Saratoga Counties. May-Oct.  
*L. parietina* O.S. Adirondacks; Fulton, Erie, and Tompkins Counties. Aug-Sep.  
*L. solitaria* O.S. Adirondacks, Jl; Essex and Fulton Counties, Je-Aug; Tompkins Co, May-Je; Brookview, Rensselaer Co, Je; Catskills, Jl.  
*L. triocellata* O.S. Adirondacks; Essex, Fulton, Onondaga, Erie, Tompkins, Cortland, Putnam, and Rockland Counties. Je-Oct.  
*L. tristigma* O.S. Adirondacks; Fulton, Niagara, Cortland, and Chenango Counties. Jl-Aug.

## DISCOBOLA Osten Sacken

- D. argus* Say. Adirondacks; Essex Co; Gloversville; Rochester; Batavia; Erie Co; Little Valley; Keuka Pk.; Cincinnatus; Ithaca, Je-Oct.

## HELIUS St. Fargeau et Serville

(*Rhamphidia* Meigen)

- H. flavipes* Macq. Fulton Co; Buffalo; Ithaca; Albany; Helderbergs; LI. May-Aug.  
*H. mainensis* Alex. Ithaca, May.

## DICRANOPTYCHA Osten Sacken

- D. germana* O.S. Adirondacks; Essex Co; Griffin; Sacandaga Pk.; S. Wales; Ithaca; Manlius; Lower Cincinnatus; Taylor. Late Je-Jl.  
*D. septentrionalis* Alex. Mayfield Mt.; N. Fair Haven; Ithaca. Aug-Sep.

## ANTOCHA Osten Sacken

- A. obtusa* Alex. Genesee Co, *Kngt.*  
*A. opalizans* O.S. Keene Val., Aug; Helderbergs, Albany Co, Je.  
*A. saxicola* O.S. Adirondacks; Sacandaga Pk.; Manlius; Honeoye Falls; Buffalo; Ithaca; Taylor; Mohawk R. valley; Tarrytown. May-Sep.  
*A. septentrionalis* Alex. Niagara Falls, Sep.

## Tribe ERIOPTERINI

## ORMOSIA Rondani

- O. adirondacensis* Alex. Fulton Co; Mountain L.; Woodworth's L.; Gloversville, Je.  
*O. apicalis* Alex. Fulton Co, Je; Ithaca, Aug.  
*O. arcuata* Doane. Hamburg; Ithaca. May.  
*O. bilineata* Dietz. Holland, May.  
*O. dentifera* Alex. Essex Co; Keene Val. May.  
*O. deviata* Dietz. Fulton and Herkimer Counties, Je; N. Fair Haven, Sep; Hamburg, May; Onondaga, Tompkins, Rensselaer, and Westchester Counties, Je.  
*O. holotricha* O.S. Johnstown; Ithaca. Ap-May.  
*O. innocens* O.S. Hamburg; Ithaca; McLean; Albany; **LI.** May.  
*O. megacera* Alex. Gloversville, Je.  
*O. meigenii* O.S. Fulton Co; Erie Co, May; Ithaca, Ap-Je; Albany, May, Sep, *Yg*; Westchester Co, Je.  
*O. mesocera* Alex. Essex Co, Jl; Gloversville, Je.  
*O. monticola* O.S. Adirondacks; Speculator; Fulton Co; Colden; Ithaca. Aug.  
*O. nigripila* O.S. Essex Co; Fulton Co, Je-Aug; Onondaga; Ithaca, May-Je; Tarrytown; **LI.**  
*O. nimbipectennis* Alex. Hamilton Co, Jl-Aug; Fulton Co, Aug; Wells, Jl, *Yg*; Newport, Je, *Yg*; Elm L., Jl-Aug, *Yg*.  
*O. notmani* Alex. Keene Val., May; Albany, May, *Yg*.  
*O. nubila* O.S. Johnstown; Erie Co, Sep-Oct; Ithaca, Ap-May; Trenton Falls; Albany; **LI.**  
*O. parallela* Doane. Ithaca.  
*O. perplexa* Dietz. Erie Co, May.  
*O. pygmaea* Alex. Fulton Co, Aug; Hamburg, May; Ithaca.  
*O. rubella* O.S. Fulton Co; Green L.; Indian Castle; N. Fair Haven; Erie Co; McLean; Albany, Sep, *Yg*; Tarrytown; West Pt. Je-Sep.



**ERIOPTERA** Meigen(Subgenus **ERIOPTERA** Meigen)

- E. chlorophylla** O.S. Adirondacks; Sacandaga Pk.; Erie Co; Ithaca; Albany; **LI.** Je-Aug.  
**E. chrysocoma** O.S. Fulton Co; Tarrytown. Je-Jl.  
**E. ebenina** Alex. Ontario, Gloversville, Je.  
**E. megophthalma** Alex. Sacandaga Pk.; Indian Castle; Ithaca; Brookview; Tarrytown. Je.  
**E. septentrionis** O.S. Adirondacks; Essex, Fulton, and Erie Counties; Ithaca; Canastota; Sharon Sps.; Brookview. Ap-Aug.  
**E. straminea** O.S. Sacandaga Pk.; Erie Co. Je.  
**E. vespertina** O.S. Sacandaga Pk.; Hamburg; Vandalia; Ithaca. May-Jl.  
**E. villosa** O.S. Erie Co. May-Jl.

(Subgenus **ILISIA** Rondani)

- E. armillaris** O.S. Fulton and Erie Counties; Ithaca; Trenton Falls; Lower Cincinnatus. Je-Aug.  
**E. graphica** O.S. Ithaca. Jl-Aug.  
**E. venusta** O.S. Adirondacks; Gloversville; Rochester Jct.; Batavia; Erie Co; Gowanda; Ithaca; Hudson R. valley; **LI.** May-Sep.

(Subgenus **HOPLOLABIS** Osten Sacken)

- E. armata** O.S. Sacandaga Pk.; Indian Castle; Rochester; Erie Co; Ithaca; Tarrytown. May-Sep.

(Subgenus **MESOCYPHONA** Osten Sacken)

- E. caloptera** O.S. Sacandaga Pk.; Indian Castle; N. Fair Haven; Erie Co; Ithaca; Lower Cincinnatus; Taylor; Albany; Brookview; **LI.** May-Sep.  
**E. needhami** Alex. Sacandaga Pk.; Green L., Onondaga Co; Indian Castle; Ithaca; Cincinnatus. Je-Jl.  
**E. parva** O.S. Johnstown; N. Fair Haven; Colden; Ithaca. Aug-Sep.

(Subgenus **GONEMPEDA** Alexander)

- E. nyctops** Alex. Fulton Co, Je.

(Subgenus **EMPEDA** Osten Sacken)

- E. stigmatica** O.S. Essex Co; Sacandaga Pk.; Erie Co; Ithaca; Lower Cincinnatus; Taylor; Trenton Falls; Helderbergs; Brookview. May-Sep.

**MOLOPHILUS** Curtis(Subgenus **MOLOPHILUS** Curtis)

- M. cramptoni** Alex. Brookview, Rensselaer Co, Je.  
**M. forcipula** O.S. Gloversville, Jl; Niagara Falls, Oct; E. Aurora, Aug.  
**M. fultonensis** Alex. Fulton Co; Lower Cincinnatus; Taylor. Jl.

- M. hirtipennis** O.S. Adirondacks; Essex Co; Fulton Co; Green L.; Erie Co; Ithaca; Hudson R. valley. Je-Aug.  
**M. pubipennis** O.S. Adirondacks; Sacandaga Pk.; Green L.; Erie Co; Ithaca; Lower Cincinnatus; Taylor; Brookview; Tarrytown. May-Aug.  
**M. quadrispinosus** Alex. Ithaca, Je.

(Subgenus **DASYMOLOPHILUS** Goetghebuer)

- M. ursinus** O.S. Adirondacks; Fulton Co; Lower Cincinnatus; Brookview. Je-Jl.

**TRIMICRA** Osten Sacken

- T. anomala** O.S. Erie Co, May-Jl; New Rochelle.

**HELOBIA** St. Fargeau et Serville

- H. hybrida** Meig. Adirondacks; Fulton and Erie Counties; Ithaca; Canastota; Karner; Clinton Hgts.; **LI.** Mar-Aug.

**GNOPHOMYIA** Osten Sacken

- G. tristissima** O.S. Fulton and Erie Counties; Niagara Falls; Ithaca; Hudson R. valley; **LI.** May-Sep.

**GONOMYIA** Meigen

(Subgenus **LIPOPHLEPS** Bergroth)

- G. alexanderi** Jn. Sacandaga Pk.; Indian Castle; Johnson. Je-Aug.  
**G. manca** O.S. Sacandaga Pk., Aug; Brookview, Je.  
**G. sacandaga** Alex. Sacandaga Pk., Je-Aug.

(Subgenus **PTILOSTENA** Bergroth)

- G. blanda** O.S. Ithaca; Taylor; Trenton Falls; Brookview; Albany. Je-Jl.  
**G. mathesoni** Alex. Essex Co; Indian Castle; Sacandaga Pk.; Ithaca; Taylor; Brookview. Je-Aug.

(Subgenus **GONOMYIA** Meigen)

- G. cognatella** O.S. Sacandaga Pk.; Indian Castle; Gowanda. Je-Aug.  
**G. florens** Alex. Sacandaga Pk.; Indian Castle; McLean; Brookview. Je.  
**G. noveboracensis** Alex. Sacandaga Pk. Je.  
**G. subcinerea** O.S. Essex, Fulton, and Erie Counties; Green L.; Ithaca; Trenton Falls; Hudson R. valley. May-Aug.  
**G. sulphurella** O.S. Peru; Fulton and Erie Counties; Ithaca; Trenton Falls; Tarrytown; **LI.** Je-Aug.

**RHABDOMASTIX** Skuse

(Subgenus **SACANDAGA** Alexander)

- R. flava** Alex. Adirondacks; Sacandaga Pk. Je-Jl.

**TEUCHOLABIS** Osten Sacken

**T. complexa** O.S. Trenton Falls, Je.

**CRYPTOLABIS** Osten Sacken

**C. paradoxa** O.S. Sacandaga Pk.; Ithaca; Taylor; Brookview. Je-Jl.

**NEOLIMNOPHILA** Alexander

**N. ultima** O.S. Hamilton and Fulton Counties; Rochester Jct.; Colden; Tompkins Co, Aug-Oct; Albany, May-Oct.

**CLADURA** Osten Sacken

(Subgenus **NEOCLADURA** Alexander)

**C. delicatula** Alex. Hamilton Co, Sep; Fulton Co; Mayfield Mt., Oct.

(Subgenus **CLADURA** Osten Sacken)

**C. flavoferruginea** O.S. Essex Co; Adirondacks; Fulton Co; Oswego; Manlius; Batavia; Niagara Falls; Ithaca; Trenton Falls; Highlands; **LI**; etc. Aug-Nov.

**CHIONEA** Dalman

**C. gracilis** Alex. Ithaca, Dec.

**C. noveboracensis** Alex. Ithaca, Feb.

**C. primitiva** Alex. Cascade; Owasco L. Nov.

**C. valga** Harr. Otto, Mar; Ithaca; L. Keuka, Manlius. Oct-Dec.

**TOXORHINA** Loew

**T. muliebris** O.S. Sacandaga Pk.; Hamburg; Ithaca; McLean; **LI**. Je-Jl.

Tribe **HEXATOMINI****ULA** Haliday

**U. elegans** O.S. Essex Co; Old Forge, Aug; Pinnacle Mt., Sep; Ithaca, May-Je.

**U. paupera** O.S. Johnstown; Erie Co; Ithaca. May-Je.

**EPIPHRAGMA** Osten Sacken

**E. fascipennis** Say. Adirondacks; Essex Co; Sacandaga Pk.; Green L.; Erie and Cattaraugus Counties; Ithaca; McLean; Hudson R. valley; **LI**. May-Je.

**E. solatrix** O.S. Sea Cliff, **LI**, Je.

**DACTYLOLABIS** Osten Sacken

**D. cubitalis** O.S. Rock City, Je; Ithaca, May.

**D. montana** O.S. Mt. Buell; Essex Co; Spring Br.; Little Valley; Ithaca; Little Falls; Helderbergs. May-Je.

**PSEUDOLIMNOPHILA** Alexander

- P. contempta** O.S. Sacandaga Pk., JI.  
**P. inornata** O.S. Adirondacks; Sacandaga Pk.; Green L.; Oswego; Ithaca. May-Aug.  
**P. luteipennis** O.S. Indian Castle; Sacandaga Pk.; Erie Co; Ithaca; Lower Cincinnatus; Taylor; Karner; New Baltimore; **LI.** May-Sep.  
**P. nigripleura** A. & L. Fulton Co; Indian Castle; Ithaca; Taylor; Lower Cincinnatus; **LI.** May-Aug.  
**P. noveboracensis** Alex. Sacandaga Pk., Je; Tompkins, Cortland, Albany, and Rockland Counties. Je-JI.  
**P. toxoneura** O.S. Adirondacks; Fulton Co; Ithaca; Karner; Helderbergs; Brookview. Je-Aug.

**LIMNOPHILA** Macquart(Subgenus **LASIOMASTIX** Osten Sacken)

- L. macrocera** Say. Adirondacks; Sacandaga Pk.; Erie Co; Little Valley; Ithaca; Lower Cincinnatus; Taylor; Hudson R. valley; **LI.** Je-Aug.  
**L. subtenuicornis** Alex. Tompkins Co, May-early Je; Helderbergs, Je; Brookview, Je.  
**L. tenuicornis** O.S. Indian Castle; Gloversville; Ithaca; McLean; Brookview. May-Je.

(Subgenus **IDIOPTERA** Macquart)

- L. fasciolata** O.S. McLean; Albany. Je.

(Subgenus **EPHELIA** Schiner)

- L. aprilina** O.S. Essex and Fulton Counties; Wells; Erie Co; Ithaca; Lower Cincinnatus; Taylor; Karner. May-JI.  
**L. johnsoni** Alex. Fulton Co, Je; Ithaca, May.  
**L. solstitialis** Alex. Fulton and Chenango Counties.

(Subgenus **DICRANOPHRAGMA** Osten Sacken)

- L. fuscovaria** O.S. Adirondacks; Fulton and Erie Counties; Portage; Ithaca; Lower Cincinnatus; Taylor; Hudson R. valley; **LI.** May-Aug.

(Subgenus **EUTONIA** Van der Wulp)

- L. alleni** Jn. Gloversville; Ithaca; Karner; Brookview. Je.

(Subgenus **PHYLIDOREA** Bigot)

- L. adusta** O.S. Adirondacks; Fulton Co; N. Fair Haven; Batavia; Erie Co; Ithaca; Manlius; Schenectady. May-Sep.  
**L. auripennis** Alex. Adirondack Mts., Aug; Ithaca, May; Brookview, Je.  
**L. caudifera** Alex. Hamilton Co, Je.  
**L. fumidicosta** Alex. Ithaca, Je.  
**L. lutea** Doane. McLean, May.

- L. luteola* Alex. Hamilton Co, Je.  
*L. neadusta* Alex. Keene Val., Jl, *Not.*  
*L. similis* Alex. Wells, Jl; Fulton Co, Je.

(Subgenus **LIMNOPHILA** Macquart)

- L. albipes* Leon. Fulton Co, Jl; Tarrytown, Je.  
*L. areolata* O.S. Essex Co; Adirondacks; Fulton Co; Green L.; Erie Co; Ithaca; Albany; Brookview. May-Je.  
*L. brevifurca* O.S. Adirondacks; Essex Co; Gloversville; Erie Co; Ithaca; Brookview. May-Je.  
*L. emmelina* Alex. Mt. Buell, Je.  
*L. fraterna* O.S. E. Aurora, May.  
*L. fratria* O.S. Essex Co.  
*L. laricicola* Alex. Fulton Co, Je.  
*L. niveitarsis* O.S. Old Forge, Jl; Helderbergs, Je.  
*L. subcostata* Alex. Indian Castle; Fulton Co; Ithaca; Brookview. May-early Je.  
*L. sylvia* Alex. Fulton Co, Je; Brookview, Je.

(Subgenus **PRIONOLABIS** Osten Sacken)

- L. munda* O.S. Essex Co, Jl; Fulton Co; Cattaraugus Co, Je.  
*L. rufibasis* O.S. Adirondacks; Peru; Essex, Fulton, and Erie Counties; Ithaca; Hudson R. valley. May-Je.  
*L. simplex* Alex. Fulton Co, Je.

**PILARIA** Sintenis

- P. edwardi* Alex. Gloversville, Je.  
*P. imbecilla* O.S. Sacandaga Pk.; Batavia; Buffalo; Gowanda; Trenton Falls; Tarrytown. Aug.  
*P. lenta* O.S. Wells; Johnstown; Green L.; N. Fair Haven; Erie Co; Ithaca; Taylor; Lower Cincinnatus; Corinth; Brookview. May-Sep.  
*P. quadrata* O.S. Sacandaga Pk.; Green L.; Batavia; Ithaca; Lower Cincinnatus; Albany; Tarrytown. May-Jl.  
*P. recondita* O.S. Indian Castle; Sacandaga Pk.; Buffalo; Ithaca; McLean; Albany; Brookview; W. Nyack. Je.  
*P. stanwoodae* Alex. Sacandaga Pk., Je; Brookview, Je.  
*P. tenuipes* Say. Essex Co; Sacandaga Pk.; Albany; Brookview; W. Nyack.

**ULOMORPHA** Osten Sacken

- U. pilosella* O.S. Herkimer, Fulton, and Erie Counties; Ithaca; McLean; Taylor; Cincinnatus; Sharon Sps.; Brookview. Je-Jl.

**ELEPHANTOMYIA** Osten Sacken

- E. westwoodi* O.S. Adirondacks; Fulton and Erie Counties; Lower Cincinnatus; Catskills; Brookview, Je. Jl-Aug.



**ATARBA** Osten Sacken

- A. picticornis** O.S. Sacandaga Pk.; S. Wales; Taylor; Trenton Falls; **LI.** Je-Jl.

**PENTHOPTERA** Schiner

- P. albitarsis** O.S. Fulton and Erie Counties; Ithaca; Lower Cincinnatus; Brookview. Je-Sep.

**ERIOCERA** Macquart

- E. brachycera** O.S. Old Forge; Pinnacle Mt.; Erie Co; Lower Cincinnatus. Jl-Aug.  
**E. cinerea** Alex. Fulton Co; Ithaca and vic. May-Je.  
**E. fuliginosa** O.S. Erie Co, May (MCV).  
**E. fultonensis** Alex. Fulton Co; Ithaca. Je.  
**E. longicornis** Wlk. Fulton Co; Dolgeville; N. Evans; Ithaca; Trenton Falls; Albany. May.  
**E. spinosa** O.S. Sacandaga; Ithaca; Trenton Falls; Lower Cincinnatus; Brookview. May-Aug.  
**E. tristis** Alex. Ithaca, Aug.

**HEXATOMA** Latreille

- H. megacera** O.S. Fulton Co; Ithaca and vic. May-Je.

Tribe **PEDICIINI****ADELPHOMYIA** Bergroth

- A. americana** Alex. Wells; Fulton Co; Ithaca; Taylor. Jl-Sep.  
**A. cayuga** Alex. Ithaca, Aug.  
**A. minuta** Alex. Indian Castle; Sacandaga Pk.; Ithaca; McLean; Brookview. May-Je.

**PEDICIA** Latreille

- P. albivitta** Wlk. Adirondacks; Fulton, Erie, and Broome Counties; Ithaca; Lower Cincinnatus; Taylor; Manlius; Hudson R. valley. May-Sep.  
**P. contermina** Wlk. Essex Co; Ithaca and vic. May-early Je.

**TRICYPHONA** Zetterstedt

- T. auripennis** O.S. Indian Castle, Je.  
**T. autumnalis** Alex. Adirondacks; Essex and Fulton Counties; N. Fair Haven; Grand I. Late Jl-Sep.  
**T. calcar** O.S. Essex and Fulton Counties; Newport; Mt. Marcy, Jl; Erie and Cattaraugus Counties; McLean. May-Je.  
**T. inconstans** O.S. Adirondacks; Essex and Fulton Counties; Rochester; Batavia; Erie Co; Portageville; Ithaca; Lower Cincinnatus; Taylor; Manlius; Hudson R. valley; Claverack; **LI.** May-Oct.  
**T. macateei** Alex. **LI.** Wyandanch, May.  
**T. paludicola** Alex. McLean, May.  
**T. vernalis** O.S. Essex and Fulton Counties; Indian Castle; Ithaca; **LI.** Ap-Je.

## RHAPHIDOLABINA Alexander

- R. flaveola* O.S. Adirondacks; Fulton Co; Hamburg; Ithaca; Lower Cincinnatus; Brookview. May-Aug.

## RHAPHIDOLABIS Osten Sacken

- R. cayuga* Alex. Fulton Co, Aug-Sep; Ithaca, Ap-May.  
*R. forceps* Alex. Helderbergs, Je; Brookview, Je.  
*R. rubescens* Alex. Gloversville, Je.  
*R. tenuipes* O.S. Adirondacks; Gloversville; Erie Co; Little Valley; Ithaca; Saratoga; Hudson R. valley. May-Aug.

(Subgenus **PLECTROMYIA** Osten Sacken)

- R. confusa* Alex. (previously recorded as *modesta* O.S.). Fulton, Erie, and Albany Counties; Holland, May; Helderbergs, Je.

SUBFAMILY **CYLINDROTOMINAE****CYLINDROTOMA** Macquart

- C. americana* O.S. Essex Co, Mt. Marcy, Jl.  
*C. tarsalis* Jn. Fulton Co, Je-Aug; Herkimer Co, Je.

**LIAGMA** Osten Sacken

- L. nodicornis* O.S. Essex Co; Sacandaga Pk.; Green L.; Indian Castle; Erie Co; Ithaca; Brookview; Tarrytown. May-Je.

**PHALACROCERA** Schiner

- P. neoxena* Alex. N. Fairhaven, May.  
*P. tipulina* O.S. Essex Co, Jl; Fulton, Je-Aug; Old Forge; Tompkins Co, Jl.

SUBFAMILY **TIPULINAE****DOLICHOPEZA** Curtis

- D. americana* Ndm. Essex and Fulton Counties, Je; Old Forge, Aug; Little Valley, Je; **LI**: Flushing, Je.

**OROPEZA** Needham

- O. albipes* Jn. Old Forge; Fulton and Erie Counties; Four Mile; Taylor; Tarrytown; **LI**. Je-Aug.  
*O. obscura* Jn. Fulton, Erie, and Cattaraugus Counties; Lower Cincinnatus; Taylor; Hudson R. valley. Je-Aug.  
*O. sayi* Jn. Old Forge; Erie Co; Niagara Falls; Ithaca. Je-Aug.  
*O. subalbipes* Jn. Erie Co, Jl; Tarrytown, Je.  
*O. venosa* Jn. Essex Co; Fulton Co; Indian Castle; S. Wales; Little Valley; Lower Cincinnatus; Brookview. Je-Jl.

## TANYPTERA Latreille

- T. frontalis* O.S. Essex and Fulton Counties; Rock City; Ithaca. May-Je.  
*T. fumipennis* O.S. Colden; Ithaca, May.  
*T. topazina* O.S. Ithaca; Lancaster; Brookview, Je. May.

## CTENOPHORA Meigen

- C. apicata* O. S. Mt. Buell, Je; **LI**, **Jl**.

## LONGURIO Loew

- L. testaceus* Lw. Gloversville; Lower Cincinnatus; **LI**. Je-Jl.

## PRIONOCERA Loew

- P. fuscipennis* Lw. Fulton Co; E. Aurora; Ithaca; Albany; Brookview. Je-Aug.

## NEPHROTOMA Meigen

- N. brevioricornis* Doane. Sacandaga Pk., Je.  
*N. calinota* Dietz. Fulton Co, Je.  
*N. eucera* Lw. Essex Co; Sacandaga Pk.; Ithaca; Manlius; **LI**. Je-Jl.  
*N. euceroideus* Alex. Fulton Co; Sport I., Sacandaga R., Je; Brookview, Je.  
*N. ferruginea* Fab. Adirondacks; Essex and Fulton Counties; Buffalo and vic.; Ithaca; Syracuse, *Blkm* (Hine); Hudson R. valley; **LI**. May-Sep.  
*N. gracilicornis* Lw. Manlius, Aug.  
*N. incurva* Lw. Adirondacks; Essex Co; Sacandaga Pk.; Batavia; Erie Co; Niagara Falls; Taylor; Ithaca; Manlius; Hudson R. valley. May-Aug.  
*N. lugens* Lw. Adirondacks; Sacandaga Pk.; Batavia; Rock City; L. Keuka; Ithaca; Karner; Brookview. May-Jl.  
*N. macrocera* Say. Sacandaga Pk.; Tarrytown. Je.  
*N. pedunculata* Lw. Adirondacks; Sacandaga Pk.; Taylor; Batavia; Four Mile; **LI**. Je-Jl.  
*N. polymera* Lw. Essex Co; Sacandaga Pk.; Niagara Falls; Ithaca; Brookview. Je.  
*N. sodalis* Lw. Baldwinsville, Je.  
*N. tenuis* Lw. Essex Co; Sacandaga Pk.; Batavia; Erie Co; Rock City; Ithaca; Cincinnatus; Hudson R. valley. Je-Aug.  
*N. virescens* Lw. Fulton Co, Aug; Tompkins Co, Jl.  
*N. xanthostigma* Lw. Erie Co, Je-Sep; Sullivan; **LI**. Je-Aug.

## TIPULA Linnaeus

(Subgenus **CINCTOTIPULA** Alexander)

- T. algonquin* Alex. Essex Co, Je-Aug.  
*T. unimaculata* Lw. New Russia; Hamilton and Fulton Counties; Sodus; Ithaca; Manlius. Aug-Sep.

(Subgenus **ODONTOTIPULA** Alexander)

**T. unifasciata** Lw. Norton's Landing; Manlius. Aug.

(Subgenus **TRICHOTIPULA** Alexander)

**T. oropezoides** Jn. Indian Castle; Fulton Co; Hamburg; Ithaca and vic. May-Je.

(Subgenus **TIPULA** Linnaeus)

**T. abdominalis** Say. Adirondacks; Essex Co; Gloversville; Rochester Jct.; Gowanda, etc., May-Sep; Portage; Ithaca; Arkville; Sharon Sps.; Hudson R. valley; **LI**.

**T. afflicta** Dietz. S. Wales, J1.

**T. angustipennis** Lw. Essex Co; Sacandaga Pk.; Indian Castle; Holland; Ithaca; Albany and vic. Ap-Je.

**T. annulicornis** Say. **LI**: Riverhead, J1.

**T. apicalis** Lw. Essex Co; Sacandaga; Ithaca and vic.; Hudson R. valley. May-J1.

**T. bella** Lw. Sacandaga Pk.; Green L.; N. Fair Haven; Honeoye Falls; Batavia; Erie Co; Ithaca; Hudson R. valley; New Baltimore; **LI**. May-Sep.

**T. bicornis** Fbs. Potsdam; Sacandaga Pk.; Erie Co, May-Je; Ithaca and vic.; West Pt.

**T. caloptera** Lw. Gloversville; Sacandaga Pk.; Indian Castle; Erie Co; Niagara Falls; Wyoming; Ithaca and vic. May-Je. **LI**, Je-Sep.

**T. cayuga** Alex. Essex Co; Indian Castle; Gloversville; Ithaca; Brookview. May-Je.

**T. centralis** Lw. Mt. McIntyre, J1; Indian Ladder, Helderberg Mts., Albany Co, Je 19, ♂.

**T. collaris** Say. Gloversville; Indian Castle; Erie Co; Little Valley; Albany; Brookview; **LI**. May-J1.

**T. cunctans** Say. Alexandria Bay; N. Fair Haven; Clifton Sps.; Batavia; Niagara Falls; Buffalo and vic.; Owego; Ithaca and vic.; Brooklyn. Sep-Oct.

**T. dejecta** Wlk. Essex Co; Gloversville; Erie Co; Ithaca; Albany; Karner; **LI**. Ap-May.

**T. eluta** Lw. Essex Co; Sacandaga Pk.; Indian Castle; Erie Co; Ithaca; Rhinebeck. May-Aug.

**T. fragilis** Lw. Adirondacks; Gloversville; Erie Co; Ithaca; New Baltimore. Sep-Oct.

**T. fuliginosa** Say. Sacandaga Pk.; Indian Castle; Mt. Buell; Erie Co; Rock City; Portage; Conesus L.; Ithaca and vic.; Helderbergs; Brookview. Je-J1.

**T. fultonensis** Alex. Essex and Fulton Counties. Je.

**T. georgiana** Alex. New Rochelle.

**T. grata** Lw. Old Forge, Je; Buffalo, Aug.

**T. hebes** Lw. Old Forge; Warren and Fulton Counties; Batavia; Erie Co; Ithaca; Taylor; Cincinnati; **LI**. Je-Aug.

**T. helderbergensis** Alex. Wells; Indian Ladder, Helderberg Mts. J1.

**T. hermannia** Alex. Essex and Fulton Counties; Adirondacks; Niagara Falls; Ithaca; Taylor; Cincinnati; Sharon Sps.; New Baltimore; Hudson R. valley. Je-Aug.

- T. hirsuta** Doane. Mayfield Mt., Fulton Co, Je.  
**T. ignobilis** Lw. Ithaca; Helderbergs; Catskills. May-Jl.  
**T. iroquois** Alex. Essex and Fulton Counties; Indian Castle; Portage; Ithaca and vic. May-Je.  
**T. latipennis** Lw. Sacandaga Pk.; Batavia; Grand L., Erie Co. Je-early Aug.  
**T. longiventris** Lw. Fulton Co; E. Aurora; **LI.** May-Aug.  
**T. macrolabis** Lw. Essex Co; Mt. Buell; Indian Castle; Helderbergs. Je-Jl.  
**T. manahatta** Alex. **LI:** Yaphank, Sep.  
**T. margarita** Alex. Ithaca, Je; Helderbergs, Je.  
**T. mingwe** Alex. Hamilton Co; Sacandaga Pk.; Sodus; Batavia; Ithaca; Manlius; Sharon Sps. Jl-Sep.  
**T. monticola** Alex. Fulton Co; Indian Castle; Rock City; Ithaca and vic.; Wells, Jl. Je.  
**T. nobilis** Lw. Essex and Fulton Counties; Wyoming Co; McLean; Albany Co. Je.  
**T. noveboracensis** Alex. Essex Co, May; Fulton Co, Je; Tompkins Co, May; Albany Co, May.  
**T. parshleyi** Alex. Axton, Je; Essex Co.  
**T. penobscot** Alex. Mt. Buell, Je.  
**T. perlongipes** Jn. Fulton Co; **LI:** Flushing, Je.  
**T. sackeniana** Alex. Ithaca, Aug.  
**T. sayi** Alex. Adirondacks; Essex Co; Gloversville; N. Fair Haven; Batavia; Erie Co; Hudson R. val. Jl-Sep.  
**T. senega** Alex. Essex, Fulton, and Erie Counties; Ithaca and vic.; Helderbergs. May-Je.  
**T. sarta** Lw. Gloversville; Erie Co; Ithaca; Brookview. May-Je.  
**T. strepens** Lw. Sacandaga Pk.; Indian Castle; Niagara Falls; Ithaca; Cincinnati; Taylor; Corinth; Palisades. May-Jl.  
**T. submaculata** Lw. Essex and Fulton Counties; Batavia; N. Evans; Four Mile; Ithaca; Cincinnati; Corinth; Albany Co. Je-Jl.  
**T. sulphurea** Doane. Fulton Co, Je; Green L., Je.  
**T. taughannock** Alex. Fulton Co; Taughannock Falls; Helderbergs. May-Je.  
**T. tephrocephala** Lw. Adirondacks; Sacandaga Pk.; Batavia; Ithaca and vic.; Hudson R. valley. May-Je.  
**T. tricolor** Fab. Gloversville; Ithaca; Batavia; Cincinnati; Niverville; **LI.** Late May-Sep.  
**T. trivittata** Say. Sacandaga Pk.; Batavia; Erie Co; Ithaca; Cortland Co; Hudson R. valley. May-Je.  
**T. ultima** Alex. Essex Co; Adirondacks; Gloversville; N. Fair Haven; Batavia; Erie Co; Ithaca; Delhi; Peekskill; **LI.** Sep.  
**T. umbrosa** Lw. Sacandaga Pk.; Adirondacks; Ithaca. Jl-Aug.  
**T. valida** Lw. Fulton Co; Green L.; Indian Castle; Erie Co; Rock City; Ithaca; Corinth; Helderbergs. Late May-early Jl.  
**T. vicina** Dietz. Erie Co, late May-early Je.



## FAMILY DIXIDAE

## DIXA Meigen

- D. centralis* Lw. "NY" (Lw), type; Elizabethtown, J1 (Garr-NYS); Karner, Nov (Garr-NYS).  
*D. clavata* Lw. Sulphur Sp. Jct., Sep (Joh); Elizabethtown, Je, Aug (Garr-NYS); Speculator, J1 (Garr-NYS); Sodus Pt., Aug (Garr); Springville, Protection, Je (MCV); Karner, Nov, Albany, Oct (Garr-NYS).  
*D. cornuta* Joh. Ithaca, Aug-Oct (Joh); McLean, Oct (Joh), holotype.  
*D. fusca* Lw. "NY" (Lw), type; Colden, May, Aug (MCV); Ithaca, Je (Joh).  
*D. modesta* Joh. Wells (Garr-NYS); Elizabethtown, Je (Garr-NYS); Ithaca, Ap-Oct (Joh), holotype; McLean, May (Joh).  
*D. similis* Joh. Ithaca, Aug (Joh), holotype; Albany, May (Garr-NYS).  
*D. terna* Lw. "NY" (Lw), type; Wells, J1 (Garr-NYS); Hamburg, Colden, May (MCV); Ithaca (Joh).

## FAMILY CULICIDAE

## ROBERT MATHESON

## SUBFAMILY CHAOBORINAE

(*Corethrinae* auct.)

## EUCORETHRA Underwood

(*Pelorempis* Johannsen)

- E. underwoodi* Underwood. Saranac L., Je, Ndm; Plattsburg, Aug (Dyar); Elizabethtown, Je (F&Y); Ithaca, Ap-Oct (Mat); Utica, Je, Sib.

## CORETHRA Meigen

(*Mochlonyx* Loew)

- C. culiciformis* DeG. (*karnerensis* Felt, *linteri* Felt). Elizabethtown, May-Aug (F&Y); Plattsburg, Aug (Dyar); Old Forge, J1 (F&Y); Karner, Je (F&Y); Ithaca, Ringwood, May (Mat).  
*C. cinctipes* Coq. Elizabethtown, Je (F&Y); Ringwood, May-Je (Mat); Ithaca, May (Mat); Delmar, Karner, May (F&Y).  
*C. fuliginosus* Felt. Big Moose, Big Chief, Je (F&Y); Nassau, Je (F&Y).

## CHAOBORUS Lichtenstein

(*Sayomyia* Coq.; *Corethra* auct.)

- C. crystallina* DeG. (*rotundifolia* Felt). Ringwood, Je (Mat); Ithaca, Sep (Mat); Karner, J1-Aug (F&Y).  
*C. americanus* Joh. (*hudsoni* Felt). Saranac Inn, Je (Joh); Elizabethtown, J1 (F&Y); Old Forge, J1 (F&Y); Karner, Je (F&Y); Poughkeepsie, Je (F&Y); SI, Ap (Mat).  
*C. albipes* Joh. Clifton Sps., Aug-Sep (F&Y); Ithaca, Sep (Joh); Bath-on-Hudson, Je (F&Y).  
*C. trivittatus* Lw. Elizabethtown, Je-Aug (F&Y).

- C. punctipennis** Say. Old Forge, Je-Aug (F&Y); Long L., Aug (F&Y); Ithaca, Sep (Mat); McLean, Aug (Mat); Poughkeepsie, Je (F&Y).

## SUBFAMILY CULICINAE

## ANOPHELES Meigen

- A. barberi** Coq. Ithaca, Sep, 1923 (Mat).  
**A. crucians** Wied. **LI**: Bellport, Oct (Dyar).  
**A. maculipennis** Meig. Raybrook, Buttermilk Falls on Raquette R., Franklin Co, and Old Forge, Aug (Mat&Snn).  
**A. punctipennis** Say. Elizabethtown, Je (F&Y); Newport, Aug (F&Y); N. Fair Haven, Jl (Mat); Sodus Pt., Aug (F&Y); Clifton Sps., Aug (F&Y); Erie Co, Sep-Oct (MCV); Ithaca, Jan-Dec (Joh, Mat); McLean, Jl (Mat); Freeville, Jl (Mat); Onteora Club, Ap (How); Albany, Aug-Sep (F&Y); Nassau, Sep (F&Y); Rensselaer, Jl (F&Y); Poughkeepsie, May (F&Y); White Plains (Beq); Pine I., Sep (F&Y); Ramsey, Je (Mat); **SI**, Jl (Mat); **LI**: Oyster Bay, Glen Cove, Jl (F&Y).  
**A. quadrimaculatus** Say. Old Forge, Aug (F&Y); Wells, Jl (F&Y); N. Fair Haven, Jl (Mat); Sodus Pt., Je-Aug (F&Y); Clifton Sps., Aug (F&Y); Ithaca, Je-Nov (Joh, Mat); McLean, Aug (Mat); Albany, Aug-Sep (F&Y); S. Salem, Je (F&Y); **SI**, Sep (Mat); **LI**: Bellport, Aug (Dyar).  
**A. walkeri** Theo. N. Fair Haven, Je-Aug (Mat & Snn); Sodus Pt., Aug-Sep (Mat); Duck L., Jl (Mat); Dryden L., Jl (Mat).

## WYEOMYIA Theobald

- W. smithii** Coq. Saranac Inn, Jl (F&Y); Tupper L., Aug (Dyar); Old Forge, Je-Jl (F&Y); E. Crooked Pond, Jl (F&Y); Big Moose, Je (F&Y); Duck L., Jl (Mat); McLean, Je-Aug (Joh, Mat).

## CULEX Linnaeus

- C. pipiens** L. Sodus Pt., Sep (F&Y); Erie Co, Jl-Oct (MCV); Schuyler, Aug (F&Y); Ithaca, all year (Joh, Mat); Albany, Je-Sep (F&Y); Karner, Oct (F&Y); Voorheesville, Aug, *Leon* (Mat); Clinton Hgts., Sep (F&Y); Nassau, Aug (F&Y); **SI**, Jl (Ds); **LI**: Baldwin, May (Ds); Sheepshead Bay, Je-Sep (F&Y).  
**C. salinarius** Coq. E. Sodus, May, Westfield, Aug, Karner, May, Nassau, Sep, E. Schodack, May, *F&Y* (Mat); **LI**: Oyster Bay, Jl, *F&Y* (Mat).  
**C. territans** Wlk. (*restuans* Theo.). Elizabethtown, Je-Jl (F&Y); Saranac Inn, Jl (F&Y); Old Forge, Aug (F&Y); Tupper L., Aug (Dyar); Newport, Aug (F&Y); Sodus, Aug (F&Y); Sodus Pt., Je-Sep (F&Y); Syracuse, Jl (F&Y); Niagara Falls, Aug (F&Y); Westfield, Aug (F&Y); Ithaca, Je-Aug (Joh, Mat); Onteora Club (How); Mohawk, Jl (F&Y); Albany, May-Sep (F&Y); Karner, May-Jl (F&Y); Clinton Hgts., Sep (F&Y); Nassau (F&Y); Binnewater, May-Aug (F&Y); Poughkeepsie, Je (F&Y); **LI**: Sheepshead Bay, Aug (F&Y).  
**C. apicalis** Adams (*territans* auct. not Wlk., *saxatilis* Grossbeck, *testaceus* Dyar not Wulp). Big Moose, Jl (F&Y); Newport, Aug (F&Y); Old Forge, Jl (F&Y); Tupper L., Aug (Dyar); Elizabethtown, Jl (F&Y); Sodus Pt., Aug (F&Y); N. Fair Haven, Jl-Aug (Joh, Mat); Schuyler, Aug (F&Y); Ithaca,

Je-Oct (Joh, Mat); McLean, Jl-Aug (Mat); Ringwood, Je-Jl (Mat); Albany, May-Sep (F&Y); Karner, May-Sep (F&Y); Bath, Je-Jl (F&Y); Clifton Sps., Aug (F&Y); Nassau, Sep (F&Y); Poughkeepsie, May-Je (F&Y); **LI**: Bellport, Aug (Dyar).

#### URANOTAENIA Lynch Arribálzaga

**U. sapphirinus** O.S. Sodus Pt., Aug (F&Y); Ithaca, Aug-Oct (Joh); Albany, Aug (F&Y); Greenbush, Aug (F&Y); **LI**: Brooklyn (F&Y); Bellport, Sep (Dyar).

#### THEOBALDIA Neveu-Lemaire

(*Culiseta* Felt)

**T. dyari** Coq. (*brittoni* Felt). Elizabethtown, May-Je (F&Y); Big Moose, Je (F&Y); Tupper L., Aug (Dyar); Ithaca, May-Je (Mat); Ringwood, Je (Mat); McLean, Je-Jl (Mat).

**T. impatiens** Wlk. (*absorbrinus* Felt). Elizabethtown, Jl-Aug (F&Y); foot of Cliff Mt., Essex Co (Beq); Saranac Inn, Jl (F&Y); Mt. Marcy, Jl, Cy (Mat); Tupper L. (Dyar).

**T. inornatus** Will. (*magnipennis* Felt). Saranac Inn, Aug (F&Y); Old Forge, Je (F&Y); N. Fair Haven, Jl (Mat); Sodus Pt., Aug (F&Y); Ithaca, Ap-Nov (Mat).

**T. melanurus** Coq. Tupper L., Aug (Dyar); Duck L., Aug (Mat).

#### TAENIORHYNCHUS Lynch Arribálzaga

(*Mansonia* Blanchard)

**T. perturbans** Wlk. Old Forge, Jl (F&Y); N. Fair Haven, Je-Aug (Mat); Sodus Pt., Je-Aug (F&Y); Sodus, Jl (F&Y); LeRoy, Je (F&Y); Dryden L., Je-Aug (Mat); Ithaca, Jl-Aug (Mat), Je (Joh).

#### PSOROPHORA Robineau-Desvoidy

**P. ciliata** Fab. Valcour I. (Mat-NYS); Sodus Pt., Aug (F&Y), Jl-Sep (Mat); Duck L., Aug, *West* (Mat); N. Evans, Aug (MCV); Ithaca, Aug-Sep (Joh, Mat); Albany, Aug-Sep (F&Y); Karner, Je-Jl (F&Y); Clifton Sps., Aug (F&Y); Arlington, Jl (F&Y); Warwick, Jl (F&Y); **SI**, Jl-Aug (Ds); **LI**: E. Quogue, Aug, *Ds* (Mat); Sheepshead Bay, Jl-Aug, Cy (Mat).

**P. columbiae** D. & K. **LI**: Cold Sp. Harb., Jl (Lutz).

**P. sayi** D. & K. Poughkeepsie, Aug (F&Y); **LI**: Sheepshead Bay, Jl, Cy (Mat).

#### AEDES Meigen

**A. abseratus** (F&Y). Plattsburg, Ap (D&H); Elizabethtown, Je (F&Y); McLean, Ringwood, May (Mat); Ontario Club, Je (How); Nassau, May (F&Y); Chapel Pond, Je, *Leon* (Mat).

**A. atlanticus** D. & K. **SI** (F&Y).

**A. atropalpus** Coq. Plattsburg, Jl-Aug (Mat-NYS); Old Forge, Aug (Mat); McLean, Jl (Mat).

**A. aurifer** Coq. Elizabethtown, Je (F&Y); Baldwinsville, May (F&Y); N. Fair Haven, Je-Jl (Mat); Sodus Pt., Je (F&Y); Ringwood, May (Mat).

- A. canadensis** Theo. Keene Val., Je (F&Y); Elizabethtown, May-Jl (F&Y); Saranac Inn, Jl (F&Y); E. Crooked Pond, Jl (F&Y); Old Forge, Je-Aug (F&Y); Big Moose, Big Chief, Je (F&Y); Fulton Chain, Aug (F&Y); Newport, Je (F&Y); Herkimer, Aug (Mat); W. Winfield, Je (Mat); N. Fair Haven, Jl (Mat); Sodus Pt., Aug (Mat); Duck L., Je (Mat); Ithaca, May-Aug (Joh, Mat); McLean, Ringwood, May-Aug (Mat); Onteora Club, May-Je (How); Schodack, May (F&Y); Delmar, May (F&Y); Clarksville, Aug (F&Y); Karner, May-Sep (F&Y); Rensselaer, May (F&Y); Nassau, May-Je (F&Y); Poughkeepsie, Jl (F&Y); **SI**, Ap (Mat), Je-Sep, *Ds* (Mat).
- A. cantator** Coq. **SI**, Aug (F&Y), Sep (Mat); **LI**: Brooklyn, Cold Sp. Harb., May (F&Y); Sheepshead Bay, Je-Aug (F&Y); Riverhead, Sep (Mat); Woodmere, Sep (F&Y).
- A. cinereoborealis** F. & Y. Elizabethtown, May-Je (F&Y); Old Forge, Je (F&Y), Aug (Mat); Herkimer, Aug (Mat); Ithaca, May (Joh, Mat); Ringwood, May (Mat); Albany, May (F&Y); Karner, May (F&Y); Nassau, May (F&Y); Delmar, May (F&Y); Normanskill, May (F&Y).
- A. cinereus** Meig. (*fuscus* O.S.). Elizabethtown, Je-Jl (F&Y); Old Forge, Jl (F&Y); Big Moose, Je (F&Y); Duck L., Je (Mat); N. Fair Haven, Je (Mat); Sodus Pt., Je, Aug (F&Y); Buffalo, Sep-Nov (EPV); Ithaca, May-Je (Joh, Mat); Ringwood, May (Mat); McLean, May-Aug (Mat); Karner, May-Je (F&Y); Bath, May (F&Y); Nassau, May (F&Y); Poughkeepsie, May (F&Y).
- A. diantaeus** D. & K. Ringwood, Je (Mat).
- A. dorsalis** Meig. (*currici* Coq., *onondagensis* Felt, *lativitatus* Coq., *quaylei* D. & K.). Syracuse, May-Sep (F&Y); Baldwinsville, May (F&Y); Ithaca, May, Jl-Aug (Joh, Mat); Albany, Aug-Sep (F&Y).
- A. excrucians** Wlk. (*abfitchii* Felt, *siphonalis* Grossbeck, *sanconi* D. & K., *cuedes* H. D. & K.). Elizabethtown, May (F&Y); Saranac Inn, Jl (F&Y); Plattsburg, Ap (Dyar); L. George, Aug (Mat); Old Forge, Je-Jl (F&Y); Herkimer, Aug (Mat); N. Fair Haven, Jl (Mat); Olcott, Je (Mat); Salamanca, Je (Mat); Watkins, May (Dyar); Ithaca, May-Aug (Joh, Mat); McLean, May-Jl (Mat); Ringwood, May-Aug (Mat); Onteora Club, Jl (How); Trenton Falls, Je (Mat); Albany, May-Je (F&Y); Rensselaer, May (F&Y); Karner, May (F&Y); Delmar, May (F&Y); Voorheesville, Jl, *Leon* (Mat); Victory Mills, May, *Leon* (Mat); **LI**: Forest Pk., Je (F&Y); Sheepshead Bay, Je-Jl, *Cy* (Mat).
- A. fitchii** F. & Y. Elizabethtown, May (F&Y); Plattsburg, Ap (Dyar); Keene Val., Aug (F&Y); Newport, Je-Aug (F&Y); Wells, Jl (Mat); Herkimer, Aug (Mat); Syracuse, Jl (Mat); Sodus Pt., Je (F&Y); Salamanca, Je (Mat); Ithaca, Ap-Aug (Mat); McLean, Ringwood, May-Aug (Mat); Watkins, May (Dyar); Atwater, Jl (Mat); Trenton Falls, Je (Mat); Victory Mills, May, *Leon* (Mat); Meadowdale, May, *Leon* (Mat); Karner, May (F&Y); Delmar, May (F&Y); Nassau, May-Je (F&Y); Niverville, Je (F&Y); Onteora Club, Je-Aug (How); N. Salem, Jl, *Leon* (Mat).
- A. hirsuteron** Theo. (*pretans* Grossbeck, *aestivalis* Dyar). Ithaca, May-Sep (Mat); Karner, Je (F&Y); Easton, May, *Leon* (Mat); **LI**: Sheepshead Bay, Jl (F&Y).
- A. impiger** Wlk. (*decticus* H. D. & K.). Elizabethtown, Ap (Dyar); Plattsburg, Ap (Dyar).
- A. intrudens** Dyar (*impiger* H. D. & K. nec Wlk.). Elizabethtown, May-Jl (F&Y); Big Moose, Je (F&Y); Old Forge, Je, Aug (F&Y); Saranac Inn, Jl (F&Y); Duck L., Je (Mat); Sodus Pt., Jl (Mat); Ithaca, Jl, Sep (Mat); Ringwood,



- May-Sep (Mat); McLean, Jl (Mat); Albany, May (F&Y); Normanskill, May (F&Y); Karner, May-Je (F&Y); Delmar, May (F&Y); Nassau, May-Je (F&Y); Chapel Pond, Je, *Leon* (Mat); Onteora Club, Je (How).
- A. lazarensis** F. & Y. Elizabethtown, May-Jl (F&Y); Old Forge, Je (F&Y); Big Moose, Je (F&Y); Big Chief, Je (Mat); Plattsburg, Ap (Dyar); Saranac Inn, Jl (F&Y); McLean, Ringwood, May (Mat); Delmar, Aug (F&Y); Nassau, May (F&Y).
- A. punctator** Kby. (*auroides* Felt, *centrotus* H. D. & K.). Peru, Je (Mat); Elizabethtown, May-Jl (F&Y); Big Chief, Big Moose, Je (F&Y); Saranac Inn, Jl (F&Y); Old Forge, Je-Jl (F&Y); Duck L., Je (Mat); N. Fair Haven, Jl (Mat); Salamanca, Je (Mat); Ithaca, May-Aug (Mat); Ringwood, May-Jl (Mat); McLean, May (Mat); Thomson, May, *Leon* (Mat); Karner, May-Je (F&Y); Voorheesville, May, *Leon* (Mat); Meadowdale, May, *Leon* (Mat); Nassau, May (F&Y); Chapel Pond, Je, *Leon* (Mat); Thacher Pk., May, *Leon* (Mat).
- A. sollicitans** Wlk. Syracuse, Jl-Aug (F&Y); **SI**: Jl-Aug (F&Y, Ds); Richmond, Je (Mat); **LI**: Woodmere, Sep (F&Y); Sheepshead Bay, Forest Pk., Je-Sep (F&Y); Wyandanch, Jl (Ds); Riverhead, Je, Sep (Mat); Farmingdale, Jl (Mat); Bellport (Dyar); Yaphank, Oct (Ds); Hog Pt., Aug (F&Y).
- A. stimulans** Wlk. (*subcantans* Felt). Plattsburg, Ap (Dyar); Newport, Je (F&Y); Piseco L., Aug (Mat); Duck L., Je (Mat); Sodus Pt., Je (F&Y); Westfield, Je (Mat); Atwater, Jl (Mat); Ithaca, McLean, Ringwood, Ap-Aug (Mat); Karner, May-Aug (F&Y); Delmar, May (F&Y); Nassau, May-Je (F&Y); Niverville, Je (F&Y); Poughkeepsie, May (F&Y); **SI**, May-Je (Ds).
- A. taeniorhynchus** Wied. NYC, Jl (Ds); **SI**, Aug (Ds); **LI**: Half Way Hollow Hills, Jl (Ds); Sheepshead Bay, Jl-Aug (F&Y); Hog Pt., Aug (F&Y); Forest Pk., Je (F&Y); Bellport, Aug (Dyar); Babylon, Sag Harb., Jl (Dyar).
- A. triseriatus** Say. Elizabethtown, Jl-Aug (F&Y); Old Forge, Aug (Mat); L. Mahopac, Jl (F&Y); N. Fair Haven, Je-Jl (Mat); Erie Co, Je-Aug (MCV); Ithaca, May-Sep (Joh, Mat); McLean, Jl (Mat); Michigan Hollow, Jl (Mat); Albany, Aug (F&Y); Karner, May (F&Y); Ramapo, Oct (Ds); **LI**: Wyandanch, Jl (Mat); Yaphank, Half Way Hollow Hills, Jl (Ds); Cold Sp. Harb., Je (F&Y).
- A. trivittatus** Coq. (*inconspicuus* Grossbeck, *angustivittatus* D. & K.). Ithaca, Taughannock Falls, Sep (Mat); Albany, Je (F&Y); Karner, Je (F&Y); Bath, Jl (F&Y).
- A. vexans** Meig. (*sylvestris* Theo.). Elizabethtown, Jl (F&Y); Old Forge, Jl (F&Y); Big Moose, Jl (F&Y); Tupper L., Aug (Dyar); Newport, Je, Aug (F&Y); Wells, Jl (Mat); Syracuse, Jl (F&Y); Sodus Pt., Je-Aug (F&Y); Erie Co, May-Aug (MCV); Ithaca, May-Sep (Joh, Mat); McLean, Sep (Mat); Albany, May-Je (F&Y); Karner, Je-Sep (F&Y); Nassau, Je, Aug-Sep (F&Y); Clifton Hgts., May, Sep (F&Y); Rensselaer, Jl (F&Y); Voorheesville, Jl-Aug, *Leon* (Mat); Onteora Club (How); Poughkeepsie, Je (F&Y); Phoenicia, Aug (F&Y); Pine L., Sep (F&Y); **SI**: Je (Ds); Clove Valley, Jl (F&Y); **LI**: Hog Pt., Aug (F&Y); Riverhead, Sep (Ds); Sheepshead Bay, Je-Aug (F&Y).

## FAMILY PSYCHODIDAE

## PERICOMA Walker

- P. albitarsis** Bks. S. Wales, Je-Jl (MCV); Ithaca, Ap-Jl.
- P. basalis** Bks. Rensselaer, May; Nassau, Je (NYS).



## PSYCHODA Latreille

- P. alternata* Say. Buffalo, Sep-Oct (MCV); Ithaca, Aug, Dec (Joh); Nassau, Sep; **LI**: Sea Cliff, J1 (Bks).  
*P. aterrima* Bks. Ithaca (Bks).  
*P. bicolor* Bks. **LI**: Sea Cliff (Bks).  
*P. marginalis* Bks. Erie Co, J1 (MCV); **LI**: Sea Cliff, Je (Bks).  
*P. nitida* Bks. Erie Co, May-Aug (MCV).  
*P. opposita* Bks. Gowanda, Je (MCV).  
*P. phalaeroides* L. (*cinerea* Bks., *longifringa* Has., *minuta* Bks.). Hamburg, Oct, N. Evans, May, Erie, Je-Aug (MCV); Ithaca, Je, Aug (Joh); Albany, May; Nassau, Sep (NYS); Poughkeepsie, Je (NYS); **LI**: Sea Cliff (Bks).  
*P. slossoni* Will. Watkins Glen (Will); Ithaca, Je, Aug (Bks).  
*P. superba* Bks. Colden, May, J1, Buffalo, Oct (MCV); **LI**: Sea Cliff, Je (Bks).

## MARUINA Müller

- M. nigra* Bks. Gowanda, Je, Little Valley, May (MCV); **LI**: Sea Cliff (Bks).

## FAMILY CHIRONOMIDAE

## SUBFAMILY CERATOPOGONINAE

## CULICOIDES Latreille

- C. biguttatus* Coq. Ithaca, J1 29 (Joh); McLean, J1, *Sib* (Joh).  
*C. guttipennis* Coq. Ithaca, J1 (Mall); McLean, Je, *Sib* (Joh).  
*C. sanguisuga* Coq. Ithaca, Je-J1, Nov (Mall); McLean, *Claas* (Joh).  
*C. stellifer* Coq. Speculator, Je (Hoff).  
*C. variipennis* Coq. Ithaca, Je (Joh).  
*C. venustus* Hoff. Nassau, Je (Hoff).

## CERATOPOGON Meigen

- C. culicoidithorax* Hoff. Karner, May (Hoff).  
*C. fuscinervis* Mall. Ithaca, Freeville, etc., Tompkins Co, J1 (Mall); McLean, Je, *Sib* (Joh).  
*C. fuscus* Coq. Ithaca, Je-J1, *Joh* (Mall).  
*C. levis* Coq. Ithaca, Je-J1 (Mall).  
*C. peregrinus* Joh. Old Forge; Ithaca, J1-Aug (Joh); McLean, *Claas* (Joh).

## EUFORCIPOMYIA Malloch

- E. eques* Joh. Old Forge, Je-J1; Ithaca, Je (Joh).

## PSEUDOCULICOIDES Malloch

- P. mutabilis* Coq. Ithaca, J1 (Mall); McLean (Joh).  
*P. major* Mall. Ithaca (Mall).

**FORCIPOMYIA** Meigen

- F. cilipes** Coq. Ithaca, J1-Nov (Mall).  
**F. coquilletti** Kieff. Adirondacks.  
**F. specularis** Coq. Erie Co, Ap-Aug (MCV); Ithaca, McLean, Ap-Aug (Mall).  
**F. squamipes** Coq. Fulton Co; Ithaca and vic., J1-Aug (Mall).

**PALPOMYIA** Meigen

- P. illinoensis** Mall. Ithaca.  
**P. longipennis** Lw. Ithaca, J1 (Joh).  
**P. nebulosa** Mall. McLean, J1 (Mall).  
**P. subasper** Coq. Ithaca, J1 (Mall).  
**P. tibialis** Meig. Hamburg, Je (MCV); Tompkins Co, Je-J1 (Joh).

**JOHANNSENOMYIA** Malloch

- J. aequalis** Mall. Hamburg, Je (MCV); Ithaca, Aug (Mall).  
**J. albaria** Coq. var. **magnipennis** Joh. Old Forge, Je; Ithaca, J1 (Joh).  
**J. argentata** Lw. Lancaster, Je, Aug (MCV); Ithaca, Je-J1 (Joh).  
**J. bimaculata** Lw. "NY" (Lw).  
**J. caudelli** Coq. N. Evans, Hamburg, May (MCV); Tonawanda, Aug (MCV).  
**J. polita** Coq. Ithaca, May (Joh).

**STILOBEZZIA** Kieffer

(Hartomyia Malloch)

- S. antennalis** Coq. Lewiston, Je (MCV).  
**S. mallochi** Hoffm. McLean, Je, Sib (Joh).

**HETEROMYIA** Say

- H. fasciata** Say. "NY".  
**H. flavipes** Meig. (*flaviceps* Joh., *basalis* Walk.). Ithaca, McLean (Joh).  
**H. plebeja** Lw. Ithaca (Mall); McLean, Aug, Sib (Joh).  
**H. rufa** Lw. Erie Co, Je, J1 (MCV); Ithaca (Joh).  
**H. trivialis** Lw. Erie Co, Je-Aug (MCV); Ithaca, McLean, J1 (Mall).

**SERROMYIA** Meigen

- S. crassifemorata** Mall. Lewiston, J1 (MCV).  
**S. femorata** Meig. Ellis, Je (Joh).

**BEZZIA** Kieffer

- B. flavitarsis** Mall. Ithaca, Freeville, J1 (Mall).  
**B. setulosa** Lw. Ithaca, J1 (Joh, Mall).  
**B. varicolor** Coq. LI: Bellport (Coq).

## PROBEZZIA Kieffer

- P. albiventris* Lw. Near Buffalo (MCV).  
*P. glaber* Coq. Saranac Inn, J1; Ithaca, J1-Aug (Mall).  
*P. obscura* Mall. Ithaca, J1 (Mall).  
*P. pallida* Mall. Lancaster, Je (MCV).  
*P. xanthogaster* Kieff. (*elegans* Coq.). Fulton Co, Je; Portage, J1 (MCV); Ithaca, J1 (Joh).

## SUBFAMILY TANYPINAE

## TANYPUS Meigen

(*Ablabesmyia* Johannsen)

- T. arietinus* Coq. Plattsburg, Aug-Sep (Coq).  
*T. bifasciatus* Coq. Lancaster, Ap, Hamburg, May (MCV).  
*T. carneus* Fab. Fulton Co, J1; Ithaca, J1 (Joh); McLean, J1; Nassau, J1.  
*T. decoloratus* Mall. McLean, Je, *Sib* (Joh).  
*T. dyari* Coq. Fulton Co; Ithaca, Je (Joh); Albany; **LI**: Sheepshead Bay, Je; Bellport, Aug (Coq).  
*T. fastuosus* Joh. Old Forge, J1; Ithaca, Ap (Joh); McLean, J1; Clinton Hgts.  
*T. florens* Joh. Ithaca, McLean, J1 (Joh).  
*T. flavifrons* Joh. Ithaca, Ap (Joh).  
*T. hirtipennis* Lw. Old Forge, J1-Aug, *Ndm* (Joh); Hamburg, May (MCV).  
*T. illinoiensis* Mall. Erie Co, Je-Sep (MCV).  
*T. indecisus* Will. McLean, Aug, *Sib* (Joh).  
*T. johnsoni* Coq. Old Forge, J1 (Joh).  
*T. marginellus* Mall. Ithaca, J1-Aug (Joh); McLean, J1, *Sib* (Joh).  
*T. melanops* Wied. Erie Co, May-Sep (MCV); Ithaca, J1; McLean, J1 (Joh).  
*T. monilis* L. Fulton Co, J1; Saranac Inn, Je; Buffalo, Sep (MCV); Ithaca, May-J1 (Joh); McLean, Aug, *Sib* (Joh); Nassau, Je.  
*T. ornatus* Meig. Ithaca, J1 (Joh).  
*T. pallens* Coq. Fulton Co; Niagara Falls, Je (Jn); Colden, May (MCV); Ithaca, Aug (Joh).  
*T. sinuosus* Coq. Fulton Co (Joh).

## PROTENTHES Johannsen

- P. culiciformis* L. Fulton Co; Old Forge, Je; Lewiston, May (MCV); Erie Co, Je-Sep (MCV); Ithaca, J1 (Joh); McLean, J1, *Sib* (Joh).  
*P. pulcher* Joh. Old Forge, Je (Joh).  
*P. stellatus* Coq. Ithaca, J1 (Joh); McLean, J1, *Sib* (Joh); Poughkeepsie.  
*P. vestitipennis* Kieff. Long L. (Kieff).

## COELOTANYPUS Kieffer

- C. tricolor* Lw. "NY" (Lw).

## TRICHOTANYPUS Kieffer

*T. persimilis* Joh. (*posticalis* Joh. nec Lundb.). Ithaca, McLean, Ap (Joh).

## PROCLADIUS Skuse

*P. adumbratus* Joh. Ithaca, Jl (Joh).

*P. bellus* Lw. Old Forge, Jl-Aug (Joh).

*P. pusillus* Lw. Fulton Co; Ithaca, Jl (Joh); McLean, Jl, Sib (Joh).

## CLINOTANYPUS Kieffer

*C. caliginosus* Joh. Buffalo, Je (MCV); Ithaca, Jl, Oct (Joh), Jl, Sib (Joh).

*C. pinguis* Lw. Ithaca, Aug (Joh).

## SUBFAMILY CHIRONOMINAE

## DIAMESA Meigen

*D. waltlii* Meig. Fulton Co; Lancaster (MCV); Ithaca, Nov-Ap (Joh); Albany, Jan.

## PSILODIAMESA Kieffer

*P. fulva* Joh. Ithaca (Joh).

## PRODIAMESA Kieffer

*P. notata* St. McLean, Sep, Sib (Joh).

## CARDIOCLADIUS Kieffer

(*Thalassomyia* Am. auct.)

*C. fulvus* Joh. Old Forge, Jl (Joh).

*C. obscurus* Joh. Old Forge, Jl, Aug; Niagara Falls, Je, Jl (MCV); Ithaca, Jl-Sep (Joh); McLean, *Claas* (Joh).

*C. platypus* Coq. Niagara Falls.

## ORTHOCLADIUS Van der Wulp

*O. absurdus* Joh. Ithaca (Joh).

*O. atomarius* Zett. Ithaca (Joh).

*O. nivoriundus* Fitch. Erie Co, May-Oct (MCV); Ithaca, Ap (Joh); McLean.

*O. obumbratus* Joh. Erie Co, Ap-Aug (MCV); Ithaca, Ap; McLean, Ap (Joh).

*O. sordidellus* Joh. (nec Eur. auct.). Old Forge, Jl, Aug; Buffalo, May (MCV); Ithaca (Joh).

## TRICHOCLADIUS Kieffer

*T. fugax* Joh. Buffalo, May (MCV); Ithaca (Joh).

*T. nitidus* Mall. McLean, Jl, Sib (Joh).

## PSECTROCLADIUS Kieffer

*P. flavus* Joh. Ithaca, Jl (Joh).

**DACTYLOCLADIUS** Kieffer

- D. sordens* Joh. Old Forge, JI; Ithaca (Joh); McLean, Sib (Joh).

**CRICOTOPUS** Van der Wulp

- C. bicinctus* Meig. Fulton Co; Old Forge, JI; Erie Co, May-Oct (MCV); Ithaca, JI, Aug (Joh); McLean, Sep, Sib (Joh); Delmar, May.  
*C. exilis* Joh. Ithaca, JI (Joh).  
*C. silvestris* Fab. Buffalo, Oct (MCV).  
*C. tremulus* Linn. Hamburg, Ap (MCV); McLean, Ap (Joh); Niagara Falls, Je (Jn).  
*C. trifasciatus* Panz. Fulton Co; Old Forge, JI; Erie Co, May-Je (MCV); Ithaca, JI, Aug (Jn); Albany, Sep.  
*C. varipes* Coq. Fulton Co; Saranac Inn; Erie Co, Ap-Aug (MCV); Ithaca, May, Oct (Joh).

**CAMPTOCLADIUS** Van der Wulp

- C. aterrimus* Meig. Buffalo, Hamburg, Ap (MCV).  
*C. byssinus* Schrank. Erie Co, Ap, Sep (MCV); Ithaca, JI (Joh).  
*C. fumosus* Joh. Old Forge; Erie Co, May (MCV); Ithaca, Ap (Joh); McLean (Joh).  
*C. graminicola* Lundb. Buffalo, Oct (MCV).  
*C. minimus* Meig. Lancaster, Buffalo, Ap (MCV); Ithaca, May (Joh).

**CHASMATONOTUS** Loew

- C. bimaculatus* O.S. Fulton Co, Je (Joh); Erie Co, May-Je (MCV); Little Valley, May (MCV); Poughkeepsie.  
*C. unimaculatus* Lw. L. Placid (Joh).

**CORYNONEURA** Winnertz

- C. celeripes* Winn. Old Forge, JI; Ithaca, Aug; McLean, JI (Joh).

**METRIOCNEMUS** Van der Wulp

- M. atratulus* Zett. Old Forge, JI; Ithaca, McLean, JI (Joh).  
*M. debilipennis* Lundb. Old Forge, JI (Joh); Buffalo, Aug, Oct (MCV).  
*M. exagitans* Joh. Ithaca; McLean, JI (Joh).  
*M. flavifrons* Joh. Fulton Co; Old Forge, JI; Ithaca; McLean, JI (Joh).  
*M. knabi* Coq. Hamburg, Ap (MCV); McLean, JI (Joh).  
*M. lundbeckii* Joh. Old Forge, JI; Ithaca; McLean, JI (Joh).

**BRILLIA** Kieffer

- B. par* Joh. Axton, JI; Old Forge, JI; Fulton Co (Joh).

**TANYTARSUS** Van der Wulp

- T. deflectus* Joh. Ithaca, Je (Joh).  
*T. dissimilis* Joh. Ithaca, Je (Joh).  
*T. dives* Joh. Buffalo, May-Oct (MCV); N. Evans, May (MCV); Ithaca, Ap; McLean, JI (Joh).



- T. pellucidus** Walk. (*exiguus* Joh.). Old Forge, J1; Ithaca (Joh).  
**T. fatigans** Joh. Ithaca, Ap; McLean, J1 (Joh).  
**T. flavellus** Joh. Fulton Co; Erie Co, Je-Sep (MCV); Ithaca (Joh).  
**T. flavicauda** Mall. McLean, Je, *Sib* (Joh).  
**T. fulvescens** Joh. Old Forge, J1; Ithaca, J1 (Joh).  
**T. gmundensis** Egger. Buffalo, Ap-May (MCV); Ithaca, Ap, May, Oct (Joh).  
**T. johannsenii** Bause. Saranac Inn.  
**T. muticus** Joh. Ithaca, Ap-May (Joh).  
**T. neoflavellus** Mall. Buffalo, Aug (MCV).  
**T. nigripilus** Joh. Ithaca, Ap, J1 (Joh).  
**T. obediens** Joh. Fulton Co; Old Forge, J1; Niagara Falls, Oct, Buffalo, Sep (MCV); Ithaca, J1 (Joh).  
**T. pusio** Meig. Old Forge, J1; Hamburg, May, Lancaster, Sep (MCV); Ithaca, Ap (Joh).  
**T. tenuis** Meig. Buffalo, May, Grand I., Je (MCV); McLean, J1, Sep (Joh); Ithaca, J1 (Joh).

## PSEUDOCHIRONOMUS Malloch

- P. richardsoni** Mall. Ithaca, May (Joh).

## CALOPSECTRA Kieffer

- C. americana** Kieff. Long L.

## CHIRONOMUS Meigen

- C. aberrans** Joh. Fulton Co; Lancaster, Je, Hamburg, Sep (MCV); Ithaca, May, Je (Joh); McLean, J1, Aug, *Sib* (Joh).  
**C. albimanus** Meig. Fulton Co; Old Forge, J1; Springville, Je (MCV); Pike, Je; Ithaca (Joh); McLean, Je, Aug, *Sib* (Joh).  
**C. albipennis** Meig. E. Aurora, May (MCV).  
**C. anonymus** Will. **LI**: Bellport (Coq).  
**C. brachialis** Coq. Fulton Co; Old Forge, J1; Lancaster, Je, E. Aurora, Je-Aug (MCV); Ithaca (Joh); Albany.  
**C. brasseniae** Leathers. Ithaca, Je.  
**C. brevitibialis** Zett. Erie Co, May-Oct (MCV); Nassau, Je; **LI**.  
**C. brunneipennis** Joh. Ithaca, J1 (Joh).  
**C. calopterus** Mitch. N. Evans, May (MCV).  
**C. cayugae** Joh. Ithaca, Je (Joh).  
**C. cristatus** Fab. Niagara Falls, Je (Jn); Ithaca, Je, J1 (Joh); McLean, J1-Sep, *Sib* (Joh).  
**C. decorus** Joh. Fulton Co; Erie Co, May-Sep (MCV); Ithaca, J1, Aug (Jn); McLean, J1, Sep, *Sib* (Joh); Clinton Hgts., Sep; Albany, Je.  
**C. devinctus** Say. Old Forge, J1; Buffalo, Grand I., Je (MCV); Ithaca, J1 (Joh).  
**C. dux** Joh. Buffalo, Lancaster, Williamsville, Je-Oct (MCV); Ithaca, Aug; McLean, J1 (Joh).  
**C. excavatus** Kieff. Adirondacks.

- C. fallax* Joh. Ithaca, Je (Joh); McLean, Aug, Sep, *Sib* (Joh).  
*C. fasciventris* Mall. Buffalo, Jl (MCV).  
*C. ferrugineovittatus* Zett. Var. of *plumosus*? Ithaca (Joh).  
*C. festivus* Say. E. Aurora, Jl (MCV).  
*C. flavicingula* Wlk. Fulton Co; Erie Co, May-Sep (MCV); Ithaca, Sep (Joh); McLean, May, Aug, Sep, *Sib* (Joh).  
*C. flavus* Joh. Niagara Falls, Oct (MCV); Erie Co, May-Oct (MCV); Ithaca, (Joh); McLean, Je-Jl, *Sib* (Joh).  
*C. frequens* Joh. Old Forge, Jl; Ithaca, Jl (Joh).  
*C. fulviventris* Joh. Saranac Inn, Je; Ithaca, Jl (Joh).  
*C. fulvus* Joh. Buffalo, Je, Hamburg, Sep (MCV); Ithaca, Jl-Aug (Joh).  
*C. fumidus* Joh. Ithaca, Jl, Aug (Joh).  
*C. griseopunctatus* Mall. Niagara Falls, Sep (MCV); Gowanda, May, Buffalo, May-Sep (MCV).  
*C. halteralis* Coq. Fulton Co; Niagara Falls, Sep (MCV); Ithaca, Jl, Aug (Joh).  
*C. hilaris* Walk. (*nephoterus* Mitch.). Fulton Co; Old Forge, Jl (Joh).  
*C. hirtipes* Mitch. Ft. Porter (EGM); Old Forge, Jl (Joh).  
*C. hyperboreus* Staeg. Fulton Co; Old Forge, Jl (Joh).  
*C. indistinctus* Mall. Ithaca, NY (Joh).  
*C. ithacanensis* Joh. Ithaca (Joh).  
*C. lineatus* Say. Old Forge, Jl (Joh); E. Aurora, Je-Jl (MCV).  
*C. lobiferus* Say (*Glyptotendipes*). Albany (Joh); McLean, Jl, *Sib* (Joh).  
*C. maturus* Joh. Ithaca, Mar; McLean (Joh).  
*C. modestus* Say. Fulton Co; Old Forge, Jl; Ithaca, Jl (Joh); **LI**: Bellport (Coq).  
*C. naevus* Mitch. Buffalo, Sep-Oct (MCV); Hamburg, May (MCV).  
*C. needhami* Joh. Fulton Co; Niagara Falls, Je (Joh); Ithaca; Nassau.  
*C. nigricans* Joh. Old Forge, Jl; Niagara Falls, Jl-Oct (Joh); Erie Co, Je-Sep (MCV); Ithaca, Je, Jl; McLean, Jl, *Sib* (Joh).  
*C. nubeculosus* Meig. Buffalo, Je (MCV).  
*C. ornatipes* Kieff. (*devinctus* Say?). Long L. (Kieff).  
*C. pallidus* Joh. Niagara Falls, Oct (MCV); Erie Co, May-Sep (MCV); Ithaca, Jl, Aug (Joh).  
*C. pedellus* DeG. Fulton Co; Erie Co, May-Sep (MCV); Ithaca, May, Jl (Joh); McLean, Jl, Aug, *Sib* (Joh); Albany, Je.  
*C. plumosus* L. Fulton Co; Niagara Falls, Je (MCV); Buffalo, May-Jl (MCV); Chautauqua L. (CVRiley); Ithaca (Joh); McLean, Je, Aug, Sep, *Sib* (Joh).  
*C. perpulcher* Mitch. Fulton Co (Mitch).  
*C. poecilopterus* Mitch. Old Forge, Jl (Joh); Lancaster, Je (MCV).  
*C. prasinus* Meig. Ithaca, Jl (Joh).  
*C. pseudoviridis* Mall. Ithaca (Joh).  
*C. pulchripennis* Coq. Long L. (Coq); Grand I., Je (MCV).  
*C. quadripunctatus* Mall. Old Forge, Jl-Aug (Joh).  
*C. riparius* Meig. Erie Co, Ap-Oct (MCV); Little Valley, Je (MCV); Ithaca (Joh).  
*C. similis* Joh. Adirondacks (Joh).

- C. stigmaterus* Say. N. Evans, Sep (MCV); LI (BDW).  
*C. styliifera* Joh. Ithaca, J1 (Joh).  
*C. taeniapennis* Coq. Rochester, May (MCV); Lewiston, J1, Grand I., Je (MCV);  
 Nassau, Je; Ithaca (Joh); McLean, Je, *Sib* (Joh).  
*C. tenellus* Zett. Old Forge, J1; Ithaca, May (Joh).  
*C. tentans* Fab. Ithaca, J1 (Joh).  
*C. viridicollis* Wulp. Fulton Co; Old Forge, J1; Ithaca, J1 (Joh).

## FAMILY THAUMALEIDAE

(Orphnephilidae)

THAUMALEA Ruthe

(Orphnephila Haliday)

- T. americana* Bezzi. Ithaca, Aug, *Joh* (Bezzi).

## FAMILY CECIDOMYIIDAE

(Itonididae)

Compiled by E. P. FELT

## SUBFAMILY LESTREMINAE

Tribe LESTREMINARIAE

LESTREMIA Macquart

- L. acerifolia* Felt. Albany, May 21, on soft maple.  
*L. pini* Felt. Albany, J1 16, on pine.  
*L. sambuci* Felt. Albany, Aug 6, on elder (*Sambucus canadensis*); probably an  
 inhabitant of decaying vegetable matter.  
*L. setosa* Felt. Albany, J1 24, on maple.  
*L. spiraeina* Felt. Albany, Je 15, on Spiraea.

## MICROCERATA Felt

- M. borealis* Felt. Speculator, J1 27, *Yg*.  
*M. corni* Felt. Albany, J1 6, on Cornus.  
*M. diervillae* Felt. Karner, Je 5, on bush honeysuckle (*Dierzella trifida*).  
*M. perplexa* Felt. Albany, J1 19, on poison ivy.

## TRITOZYGA Loew

- T. borealis* Felt. Keene Val., Sep 10-15, *Not*.  
*T. fenestra* Felt. Albany, Je 3, on an office window.

## NEPTUNIMYIA Felt

- N. flavida* Felt. Keene Val., Aug 26, *Not*.  
*N. tridens* Felt. Albany, reared Ap 17.

**NEOCATOCHA** Felt

*N. sylvana* Felt. Keene Val., Sep 6, *Not*.

**KONISOMYIA** Felt

*K. borealis* Felt. Keene Val., Aug 30, *Not*.

*K. fusca* Felt. Albany, Je 2, on an office window.

Tribe **CAMPYLOMYZARIAE**

**JOANNISIA** Kieffer

*J. borealis* Felt. Keene Val., Aug 30, *Not*.

*J. flavopedalis* Felt. Newport, Jl 25.

*J. flavoscuta* Felt. Nassau, Jl 24, on a window.

*J. photophila* Felt. Albany, Jl-Aug, on an office window; Poughkeepsie, in a trap lantern.

**CAMPYLOMYZA** Meigen

*C. carpini* Felt. Albany, Je 1, on ironwood.

*C. cerasi* Felt. Newport, Jl 25.

*C. flavoscuta* Felt. Albany, Je 4.

*C. gibbosa* Felt. L. Clear, Je 7, on spruce.

*C. modesta* Felt. L. Clear, Je 7, on balsam.

*C. monticola* Felt. Keene Val., Aug 30, *Not*.

*C. pomiflorae* Felt. Karner, May 14, about flowers of shadbush and wild cherry.

*C. pomifolia* Felt. Nassau, May 6, on apple leaves.

*C. producta* Felt. Nassau, Jl 31, on a window.

*C. vitinea* Felt. Albany, Aug 14, about grape or ash.

**PRIONELLUS** Kieffer

(*Prionota* Kieffer)

*P. defectiva* Felt. Newport, Jl 27, on hemlock.

*P. graminea* Felt. Karner, Ap 27, on grass.

*P. hesperia* Felt. Newport, Jl 27, on hemlock.

*P. latipennis* Felt. Karner, Ap 27, on pine.

*P. leguminicola* Felt. Albany, Je 4, on red clover.

*P. longipennis* Felt. Albany, Aug 2, on an office window.

*P. tsugae* Felt. L. Clear, Je 7, on hemlock.

**MONARDIA** Kieffer

*M. alexanderi* Felt. Sport I., Sacandaga R., Jl 25, *Alex*.

*M. balsamicola* Felt. L. Clear, Je 7, on balsam.

*M. gilletti* Felt. Albany, Sep 11, on a window.

*M. karnerensis* Felt. Karner, May 16.

*M. populi* Felt. Albany, Je 4, on large-toothed poplar.

*M. toxicodendron* Felt. Albany, Je 4, on poison ivy.

**CORDYLOMYIA** Felt

- C. brevicornis** Felt. Nassau, Jl-Aug, on a window.  
**C. luna** Felt. Westfield, Jl 11.  
**C. tumida** Felt. Albany, Je 25, on a window.  
**C. versicolor** Felt. Albany, Jl 17.

**CORINTHOMYIA** Felt

- C. gracilis** Felt. Albany, Jl 5, on an office window.  
**C. hirsuta** Felt. Albany, Aug 1, on an office window.

SUBFAMILY **HETEROPEZINAE****MIASTOR** Meinert

- M. americana** Felt. Highland, Tivoli, Nassau, L. Placid. The larvae, frequently paedogenetic, are common in the decaying bark of various trees, especially maple, chestnut, oak, birch, beech, and hickory, and are more abundant in the early spring; probably widely distributed in the State.

**JOHNSONOMYIA** Felt

- J. fusca** Felt. Albany, Aug 9.

**LEPTOSYNA** Kieffer

- L. americana** Felt. Nassau, May 27, in trap lantern.  
**L. quercivora** Felt. Reared Ap 20 from partly rotten red-oak bark collected at Nassau.

**KRONOMYIA** Felt

- K. populi** Felt. Reared May 5 from a whitish larva found in punky poplar wood at Nassau, Ap 12.

**BRACHYNEURA** Rondani

- B. americana** Felt. Albany, Aug 2, on a window.  
**B. eupatorii** Felt. Reared Sep 14, possibly from a stem gall on thoroughwort (*Eupatorium perfoliatum*) taken at Poughkeepsie.  
**B. vitis** Felt. Reared Jl 13 from a jar containing *Lasioptera vitis* galls, collected probably at W. Nyack.

**OLIGARCES** Meinert

- O. novaeboracensis** Felt. Albany, Jl 15, on a window.  
**O. ulmi** Felt. Reared Mar 18, from larvae occurring in the thick, partly decaying bark of an old elm at Nassau.

SUBFAMILY **ITONIDIDINAE**Tribe **PORRICONDYLIARIAE****WINNERTZIA** Rondani

- W. aceris** Felt. Reared from white larvae occurring under the thin, decaying bark of sugar maple at Schodack.



- W. ampelophila** Felt. Albany, J1 3, on Virginia creeper.  
**W. calciequina** Felt. Albany, J1 24.  
**W. carpini** Felt. Albany, Je 1, on ironwood.  
**W. hudsonica** Felt. Reared Je 25 at Albany from a jar containing leaves of *Crataegus* bearing greenish, stout, cup-shaped, fimbriate galls.  
**W. karnerensis** Felt. Karner, Je 26.  
**W. palustris** Felt. Canada L., Caroga, J1 10, *Alex*.  
**W. pectinata** Felt. Reared the following spring from larvae found under decaying chestnut bark at Nassau, Nov; Keene Val., Aug 27, *Not*.  
**W. solidaginis** Felt. Albany, J1 6.  
**W. rubida** Felt. Albany, Je 15.

## PARWINNERTZIA Felt

- P. notmani** Felt. Keene Val., J1 17, *Not*.

## DIDACTYLOMYIA Felt

- D. flava** Felt. Albany, J1 6.  
**D. longimana** Felt. Both sexes collected by *Alex*, Aug, at Woodworth's L.  
**D. maculata** Felt. Poughkeepsie, Je 28, in a trap lantern; apparently the same form was captured in a similar manner at Newport, J1 11.  
**D. robusta** Felt. Keene Val., Sep 14, *Not*.

## COLPODIA Winnertz

- C. alta** Felt. Karner, J1 5.  
**C. americana** Felt. Woodworth's L., Aug 14, *Alex*.  
**C. capitata** Felt. Woodworth's L., Aug, *Alex*.  
**C. diervillae** Felt. Karner, J1 5.  
**C. graminis** Felt. Albany, J1 14, on quack grass.  
**C. maculata** Felt. Albany, J1 16.  
**C. ovata** Felt. Woodworth's L., Aug, *Alex*.  
**C. pectinata** Felt. Reared in Aug from a jar containing irregular, subglobose leaf swellings on basswood collected at Albany.  
**C. porrecta** Felt. Woodworth's L., Aug, *Alex*.  
**C. sanguinea** Felt. Nassau, J1 15; later reared by *Ald* from an almost pure blue-grass sod.  
**C. sylvestris** Felt. Woodworth's L., Aug, *Alex*.  
**C. temeritatis** Felt. Reared Sep 9 from a jar containing ash leaves bearing a purplish green, subglobular gall collected near Albany.  
**C. terrena** Felt. Albany, J1 7, on quack grass.  
**C. trifolii** Felt. Albany, J1 3, on white clover.

## ASYNAPTA Loew

- A. apicalis** Felt. Woodworth's L., Aug 24, *Alex*.  
**A. borealis** Felt. Keene Val., Aug 28, *Not*.  
**A. caudata** Felt. Albany, Je.

- A. *cerasi* Felt. Albany, Je 21, on cherry.
- A. *dolens* Felt. Keene Val., Sep 7, *Not.*
- A. *flavida* Felt. Nassau, Jl 6.
- A. *furcata* Felt. Nassau, Je 21.
- A. *mediana* Felt. Woodworth's L., Aug 28, *Alex.*
- A. *salciperda* Felt. Keene Val., Aug 27, *Not.*

#### PORRICONDYLA Rondani

- P. *antennata* Felt. Johnstown, Jl 11, *Alex.*
- P. *bidentata* Felt. Keene Val., Aug 26, *Not.*
- P. *borealis* Felt. L. Clear, Je 7, on spruce.
- P. *caudata* Felt. Nassau, Jl 9, in a trap lantern.
- P. *dilatata* Felt. Reared Sep 7, from a jar containing galls of *Cecidomyia verrucicola* O.S. collected at Highland.
- P. *dorsata* Felt. Dug Mt., Aug 8, *Yg.*
- P. *flava* Felt. L. Clear, Je 7, on red maple.
- P. *fultonensis* Felt. Woodworth's L., Je, *Alex.*
- P. *juvenalis* Felt. Elm L., Aug 7, *Yg.*
- P. *karnerensis* Felt. Karner, May 16.
- P. *pini* Felt. Albany, Je 11, on white pine.
- P. *setosa* Felt. Woodworth's L., Aug 21, *Alex.*
- P. *spinigera* Felt. Keene Val., Sep 4, *Not.*
- P. *tumidosa* Felt. Keene Val., Aug 27, *Not.*
- P. *wellsi* Felt. Wells, Jl 5, *Yg.*

#### CAMPTOMYIA Kieffer

- C. *aestiva* Felt. Keene Val., Sep 4, *Not.*
- C. *antennata* Felt. Keene Val., Sep 15, *Not.*
- C. *dentata* Felt. Keene Val., Sep 3, *Not.*
- C. *montana* Felt. Wells, Jl 5, *Yg.*
- C. *pectinata* Felt. Keene Val., Aug 26, *Not.*
- C. *tsugae* Felt. Reared from pinkish maggots inhabiting the larval galleries of *Melanophila fulvoguttata* working in dying hemlock in NYC; Scarsdale, Dec 2, larvae on hemlock.

#### DIRHIZA Loew

- D. *canadensis* Felt. Keene Val., Aug 14, *Not.*
- D. *hamata* Felt. Albany, Je 8; appears to be somewhat common; Keene Val., Aug 7, *Not.*
- D. *multiarticulata* Felt. Keene Val., Aug 29, *Not.*
- D. *photophila* Felt. Nassau, May 7, in a trap lantern.
- D. *sylvestris* Felt. L. Clear, Je 7, in a balsam woods.

## HOLONEURUS Kieffer

- H. altifilus* Felt. Karner, Je 26, flying about skunk cabbage.  
*H. humulis* Felt. Albany, Jl 24, on low blackberry.  
*H. inflatus* Felt. Keene Val., Sep 12, *Not*.  
*H. multinodus* Felt. Nassau, Jl 7, in a trap lantern.  
*H. photophilus* Felt. Nassau, Je 3, in a trap lantern.  
*H. tarsalis* Felt. Reared Aug 15 from pine needles and débris collected at North Cr.

## Tribe DASYNEURIARIAE

## RHABDOPHAGA Westwood

- R. absobrina* Felt. Albany, May 17.  
*R. acerifolia* Felt. Albany, May 17. Food plant unknown.  
*R. aceris* Shim. Produces an irregular curling of white or silver maple leaves, and occurs at Albany (Jl, larvae and cocoons on soft maple) and probably other points in the State; Gloversville, Aug; Rensselaer, Jl, larvae on soft maple.  
*R. batatas* Walsh. Produces a gall which is common on willow in and about Albany, and is presumably widely distributed through the State; Canandaigua, Oct, gall on willow.  
*R. brassicoides* Walsh. Inhabits the willow cabbage-gall, a deformity very common in certain parts of the State.  
*R. cephalanthi* Felt. Nyack, Jan 7, 1884, reared from twigs on buttonbush (*Cephalanthus occidentalis*), *Zab*.  
*R. consobrina* Felt. Albany, May 17.  
*R. cornuta* Walsh. Galls provisionally identified as those of this species were observed at W. Nyack.  
*R. gemmae* Felt. Albany, Je, reared from a peculiar stunted, elongate tip of a willow twig.  
*R. globosa* Felt. Albany, May 7, reared from willow twigs bearing small, rounded galls, a part of the surface showing a discolored, dead area.  
*R. hirticornis* Felt. Albany, Ap, Sep 20, reared from jars containing various galls, especially those of *Caryomyia persicoides* and *Schizomyia pomum*.  
*R. latebrosa* Felt. Albany, May 7, reared from apparently normal willow buds.  
*R. marginata* Felt. Albany, May 23, captured on choke cherry.  
*R. nodula* Walsh. Produces a small, nodular swelling usually encircling the bases of smaller willow branches, and is somewhat common in the vic. of NYC.  
*R. persimilis* Felt. Albany, Ap 11, reared from a rather typical though slender *R. strobiloides* Walsh gall.  
*R. podagrae* Felt. Produces inconspicuous swellings 5-7 cm. long in willow twigs. Appears to be common at E. Schodack.  
*R. populi* Felt. Karner, May, reared from whitish cocoons on poplar. Appears to be a rather common species.  
*R. porrecta* Felt. Gloversville, Ap 5, *Alex*.  
*R. pratensis* Felt. Albany, Je 4, on red clover.  
*R. ramuscula* Felt. Ap 22, from Salix twigs bearing galls closely resembling those of *R. batatas* Walsh.

- R. *salicifolis* Felt. Produces a characteristic thickened brownish midrib fold on meadowsweet, which is moderately common about Albany and at Nassau; Hudson Falls, Sep, on hardhack.
- R. *salicis* Schrk. A European species which has become established in the vicinity of Rochester and is probably to be found in the important centers for the growing of European willow.
- R. *sodalitatis* Felt. Albany, Ap 13, reared from what appeared to be a typical *Phytophaga rigidae* gall on *Salix*.
- R. *strobiloides* Walsh. Produces the common pine-cone-like gall on willow, which appears to be widely distributed throughout the State; Albany; Trudeau, Aug 7.
- R. *triticoideis* Walsh. Appears to be common in vic. of Albany, and is probably widely distributed in the State, especially in localities favorable for the growth of its food plant, *Salix*. The gall is an irregular enlargement from 1 to nearly 3 cm. thick and about 6 mm. in diameter, and is evidently caused by the dwarfing of a number of adjacent buds.

#### DASYNEURA Rondani

- D. *aberrata* Felt. Albany, May 19.
- D. *acerifolia* Felt. Albany, May 21, on maple.
- D. *albohirta* Felt. Albany, May 17.
- D. *albovittata* Walsh. W. Nyack, reared from the common pine-cone galls of *Rhabdophaga strobiloides* Walsh.
- D. *ampelophila* Felt. Albany, Jl 13, on Virginia creeper.
- D. *anemone* Felt. Kinderhook and Nassau, Jl 12, reared from a loose bud gall on *Anemone canadensis*.
- D. *antennata* Felt. Albany, Je 11, on sugar maple.
- D. *apicata* Felt. Highland, Sep 7, reared from a deformed terminal growth on ash.
- D. *attenuata* Felt. Albany, Je 9.
- D. *augusta* Felt. Albany, Aug 6, on oak.
- D. *aurihirta* Felt. Albany, Jl 6, on New Jersey tea.
- D. *bidentata* Felt. Albany, Je 21, on white oak.
- D. *borealis* Felt. L. Clear, Je 7, found in collecting from spruce.
- D. *carbonaria* Felt. Albany, Jl 27, reared probably from a loose apical gall on the narrow-leaved *Solidago*.
- D. *caricis* Felt. Albany, Je 4, on sedge.
- D. *cirsioni* Felt. Albany, Jl 17, on Canada thistle.
- D. *clematidis* Felt. Produces an irregular, subglobular, axillary mass 1 cm. in diameter, composed of deformed, enlarged, rudimentary leaves or young buds. Recorded from Highland, Albany, and Newport.
- D. *communis* Felt. Produces thickened vein swellings on soft maple which are very common in different parts of the State. Canandaigua, Je, Oct; Goshen, Oct, 9, on red maple; Patterson, Je; Hudson Falls.
- D. *consobrina* Felt. Albany, Je 11, on white pine.
- D. *denticulata* Felt. L. Clear, Je 7, on white spruce.
- D. *filicis* Felt. Albany, May 17.
- D. *flavescens* Felt. Albany, Jl 17, on ash.

- D. flavicornis* Felt. Albany, latter part of JI, reared from a greenish or purplish pouch-like gall on the narrow-leaved Solidago.
- D. flavoabdominalis* Felt. Albany, Aug 6, on Solidago.
- D. flavoscuta* Felt. Albany, Je 11, on Solidago.
- D. fraxinifolia* Felt. Rensselaer, Aug 1, reared from tightly rolled leaves of ash.
- D. fulva* Felt. Nassau, Je 14, on huckleberry.
- D. gleditschiae* O.S. Produces characteristic pod-like swellings on the leaves of honey locust, and has been recorded as not common in Central Pk., NYC.
- D. graminis* Felt. Has been observed ovipositing in redtop or June grass; recorded from Albany, Kinderhook, and Poughkeepsie.
- D. karnerensis* Felt. Karner, Je 4, on Aster or Solidago.
- D. leguminicola* Lint. The common clover-seed midge. Appears to be widely distributed in the State, and materially restricts the production of clover seed.
- D. lysimachiae* Bt. Albany and Elm L., reared from a terminal conical leaf gall on the whorled loosestrife.
- D. maculosa* Felt. Nassau, Je 14, on a window.
- D. meliloti* Felt. Albany, Aug 6, on sweet clover.
- D. modesta* Felt. Albany, May 19, near a red oak.
- D. multiannulata* Felt. Nassau, Je 14, on hickory.
- D. parthenocissi* Steb. Produces a characteristic, sometimes winged, midrib gall on woodbine. Rather common at Nassau and in vic. of Syracuse.
- D. pedalis* Felt. Newport, Je 27, in a trap lantern.
- D. photophila* Felt. Nassau, Je 10, on a window.
- D. piperitae* Felt. Nassau, early Aug, reared from the enlarged terminal buds of peppermint.
- D. pseudacaciae* Fitch. Deforms the young leaves of black locust, and is common in various parts of NY from LI northward to Glens Falls, Je.
- D. pudorosa* Felt. Nassau, Je 14.
- D. purpurea* Felt. Karner and SI, Sep, reared from oval or fusiform bud-like flower galls of joe-pye weed.
- D. quercina* Felt. Albany, May 18, on oak.
- D. rhodophaga* Coq. Occurs in violet houses; recorded as causing considerable injury at Rhinebeck and presumably in other violet-growing centers; Beacon, Oct, on rose.
- D. rhois* Coq. Lebanon Sps., Mar, reared by Coquillett from galls on the roots of the common poison ivy; Whitehall.
- D. rosarum* Hardy. Albany, JI 11, reared from folded terminal leaves of rose.
- D. rufipedalis* Felt. Karner, Je 4, on red clover.
- D. salicifolia* Felt. Albany, Aug, reared from young terminal adherent willow leaves.
- D. scutata* Felt. Albany, JI 16.
- D. semenivora* Bt. Produces a plum-like gall on violet; recorded from Albany.
- D. serrulatae* O.S. Produces a bud gall on alder. Vic. Albany, rather common; Hudson Falls, Ap. Probably widely distributed throughout the State.
- D. setosa* Felt. Nassau, Aug 10, on a window.
- D. simillima* Kieff. (*similis* Felt). Albany, JI 7, on thistle.
- D. simulator* Felt. Nassau, JI 3 and 21.
- D. smilacinae* Bish. Ithaca, reared from root galls on false Solomon's seal.



- D. trifolii* Lw. Newfane, Je 2; W. Haverstraw, W. Nyack, Je 14; Wappinger Falls, Je 28; Ghent, Jl 29. Is probably moderately common where white clover (*Trifolium repens*) has been growing for a series of years. The larvae prevent the leaves from unfolding, and produce a yellowish or brownish discoloration of the affected parts.
- D. tumidosæ* Felt. Reared in small numbers from jars containing numerous galls collected at Highland and generally identified as those of *Cecidomyia pellex* O.S.
- D. unguicula* Felt. Nassau, Jl-Aug.
- D. vernalis* Felt. Nassau, Je 14, on New Jersey tea.
- D. vitis* Felt. W. Nyack, Jl 16, reared from the common tomato gall of the grape, and presumed to be that of *Lasioptera vitis* O.S.

#### LASIOPTERYX Felt

- L. carpini* Felt. Albany, Je 21, on ironwood or blue beech.
- L. coryli* Felt. W. Nyack, Jl 11, reared from a fuzzy, wrinkled, fold gall at the base of hazel leaves.
- L. flavotibialis* Felt. Nassau, May, reared from larvae in a partly decayed oak stump.

#### NEUROMYIA Felt

- N. minor* Felt. Nassau, Jl, on a window.

#### CYSTIPHORA Kieffer

- C. canadensis* Felt. Inhabits a blister leaf gall on white lettuce or rattlesnake root. LI: Orient, Aug, gall on *Prenanthes*.
- C. viburnifolia* Felt. Produces a very common, inconspicuous blister leaf gall on hobblebush. Albany.

#### RHIZOMYIA Kieffer

- R. absobrina* Felt. Albany, Jl 11 and 26, reared from a jar containing *Crataegus* leaves bearing cylindric, fimbriate, unicellular galls.
- R. cerasi* Felt. Albany, Je 21.
- R. cincta* Felt. Albany, Jl 30, on *Cornus*.
- R. hirta* Felt. Rensselaer, Aug 17, reared from reddish, blister-like leaf mines on *Crataegus*.
- R. hispida* Felt. Albany, Jl 6.
- R. ungulata* Felt. Albany, Jl 6.
- R. vitis* Felt. Albany, Jl 13, reared from the tomato grape gall, *Lasioptera vitis*.

#### Tribe LASIOPTERARIAE

##### LASIOPTERA Meigen

- L. abhamata* Felt. Karner, Je 4.
- L. argentisquamae* Felt. W. Nyack, Jl, reared from *Solidago* bearing a characteristic, adhesive leaf gall.
- L. basiflava* Felt. Albany, Jl 30, on grape.

- L. culicola* Felt. Vic. Albany, Je 6, reared from an apparently normal stem of bush honeysuckle. The larvae are found just under the bark in a small, oval cell.
- L. cinerea* Felt. Albany, May 21, on black alder.
- L. clavula* Bt. Appears to have been reared from the characteristic clavate twig galls on *Cornus florida*. The deformity is rather common in the vic. of Albany southward to NYC, and presumably occurs in other parts of the State. **LI**: Sea Cliff, Feb 4, galls.
- L. consobrina* Felt. Albany, Je 10, on maple-leaved arrowwood.
- L. convolvuli* Felt. Produces a monothalamous, fusiform stem gall 1.5 cm. long, and 0.5 cm. in diameter, on the hedge bindweed. Rensselaer Co, Hudson, the adults appearing the middle of May.
- L. corni* Felt. Apparently reared from a greenish or red-ringed blister leaf gall on *Cornus paniculata*. This gall has been received from: W. Nyack; Ellenville; Catskill; Hudson Falls, Sep; Canandaigua, Sep-Oct; and probably occurs in other parts of the State.
- L. cylindrigallae* Felt. Reared in early May from a uniform Solidago stem enlargement, with a length of about 10 cm. and a diameter of 7 cm., the central cavity being slightly enlarged and containing a number of larvae. Somewhat common at W. Nyack and Nassau, and on **SI**.
- L. danthoniae* Felt. White Church, reared by Cy in the spring of 1908 from a bunch of Danthonia. The gall is undescribed.
- L. excavata* Felt. Albany, Aug 17, reared presumably from a blister-like reddish brown leaf mine occurring rather commonly on Crataegus.
- L. farinosa* Bt. Produces a characteristic warty, usually pruinose, woody swelling at the base of the leaflets or midrib of the common blackberry. Probably widely distributed, not uncommon. Canandaigua, Oct; Albany; NYC; **SI**, Aug-Sep (Ds); **LI**: Orient, Sep.
- L. flavipes* Felt. Albany, Jl 17, on white oak.
- L. fraxinifolia* Felt. Apparently reared from a purplish green, subglobular gall, 5 mm. in diameter, on ash leaves and described by O.S. as *Cecidomyia pellex*. This deformity appears to be somewhat common at L. Onondaga, Westfield, Highland, Poughkeepsie, and NYC.
- L. hamata* Felt. Nassau, Je 14, on Solidago.
- L. hecate* Felt. Albany, Je 19.
- L. humulicaulis* Felt. Occurs in a uniform swelling of the hop stem about 1 cm. in diameter and ranging in length from 4 to 50 cm. Rye, *Bird*; probably occurs in other parts of the State.
- L. impatientifolia* Felt. Albany, reared from a tumid midrib fold on the leaves of touch-me-not or snapdragon. Probably rather widely distributed throughout the State.
- L. juvenalis* Felt. Newport, Jl 25, on bouncing bet.
- L. lactucae* Felt. Karner, reared from a stem gall on the stalks of rabbit weed or wild lettuce, closely resembling the much more common gall produced by the cynipid, *Aylax tumidus* Bass.; probably occurs in other parts of the State.
- L. linderae* Bt. Produces an irregular, subcortical, eccentric stem gall 2 to 5 cm. in length, on spicebush. Vic. NYC, rather common, adults, May-Je.
- L. lycopi* Felt. Inhabits a globose stem gall 8 to 10 mm. long and 2.5 mm. in diameter, on bugle weed (*Lycopus communis*). Albany; Shushan; White Plains; **LI**: Orient, Mar, Sep, *Lath*; probably widely distributed in the State.

- L. nassauensis* Felt. Nassau, Jl.  
*L. neofusca* Felt. Albany, May 25.  
*L. nodulosa* Bt. Produces an irregular, subfusiform or elongate swelling on the smaller branches of blackberry. The gall is reddish, usually of the same color as the adjacent bark, about 2 cm. long, 1 cm. in diameter, and polythalamous. Vic. Albany; appears to be much more common in and about NYC; **SI** (Ds).  
*L. palustris* Felt. W. Nyack, Ap 18, reared from a subglobular to elongate, irregular, fusiform stem gall on an unknown plant.  
*L. panici* Felt. Albany, Je 27, taken as the female was evidently about to oviposit on *Panicum macrocarpon*.  
*L. riparia* Felt. Westfield, Ap 27, reared from an oval or fusiform petiole or tendril gall on *Vitis bicolor*.  
*L. serotina* Felt. Albany, May 23, on choke cherry.  
*L. solidaginis* O.S. Produces a rough, eccentric stem gall, length and diameter about 2.5 cm., on *Solidago rugosa*. Albany, scarce; vic. NYC, common.  
*L. vernoniae* Bt. NYC; **SI**. Reared from flower and leaf galls on ironwood. The leaf gall is oval, about 5 mm. long, green tinged with red, and shows on both surfaces of the leaf.  
*L. viburni* Felt. Albany, Je 10, on maple-leaved arrowwood.  
*L. vitis* O.S. Produces a reddish, irregular, frequently lobulated, succulent enlargement of the leaf stalk, parts of the leaf, or even the tendrils, of grape, the mass being 2 or 3 inches long and polythalamous. Several species of midges have likewise been obtained from this gall. The insect is probably widely distributed in NY, excepting possibly the Adirondack region. Kingston, Je; Manorville, Jl; Suffern, Jl; Rensselaer, Je; Nassau, Jl; Port Jervis, Aug; NYC, Je 13; **SI**: New Brighton, Je (larvae).

#### NEOLASIOPTERA Felt

- N. albitarsis* Felt. Nassau, reared May 18 and 21 from fusiform, irregular stem galls 1 cm. long and 6 cm. in diameter on *Diplopappus cornifolius*.  
*N. albolineata* Felt. Albany, Aug 5.  
*N. ambrosiae* Felt. Ithaca, Jan, reared by Cy from apparently normal stems of the giant ragweed (*Ambrosia trifida*).  
*N. asclepieae* Felt. Albany, Je 20, reared from an elongate, fusiform stem gall on the swamp milkweed (*Asclepias incarnata*).  
*N. basalis* Felt. Albany, Aug 6, on hazel.  
*N. celastri* Felt. Albany, Jl 17, on bittersweet.  
*N. cinerea* Felt. Albany, Je 21.  
*N. clematidis* Felt. Newport, Jl 17, captured as the female was attempting to oviposit in the stem of Clematis; Hudson Falls, Sep, gall.  
*N. cornicola* Bt. Produces an irregular, nodular, polythalamous gall on the small twigs, the larger branches, and the old stems of *Cornus stolonifera*. The gall varies in length from 1 to 2 cm., and is usually on one side of the twig. Hudson Falls, Mar, Nassau, abundant; W. Nyack; vic. NYC. Presumably widely distributed in the State. The midges appear in early May.  
*N. erigerontis* Felt. Produces a fusiform stem gall on horse-weed (*Erigeron canadensis*).

- N. eupatorii** Felt. Canandaigua, Sep; **SI**, reared from an oval or subglobular stem gall with a length of 1.5 cm. and a diameter of 1 cm., on white snakeroot (*Eupatorium urticaefolium*).
- N. flavomaculata** Felt. Albany, JI 11.
- N. flavoventris** Felt. Karner, JI, flying about hard pine.
- N. hamamelidis** Felt. Albany, Je 10, on witch-hazel.
- N. hamata** Felt. Canandaigua, Sep; Albany, Ap-May, reared from an oval, polythalamous stem gall 2 cm. long and 5 cm. in diameter on an unknown weed.
- N. helianthi** Felt. Highland, Sep 3, from a gall on *Helianthus strumosus* supposed to be that of *Asphondylia globulus* O.S.
- N. hibisci** Felt. **SI**, Ap 25, reared from slightly enlarged stems of the swamp rose mallow, *Hibiscus moscheutos*.
- N. liriodendri** Felt. Albany, Je 8, on a tulip tree.
- N. perfoliata** Felt. Buffalo; Nassau. Midges in May. Produces an oval stem gall with a length of 1 to 1.5 cm. and a diameter of 0.5 cm., on boneset.
- N. ramuscula** Bt. Produces a fusiform branch gall with a length of 1 cm. and a diameter of 4 cm., on several species of Aster. Hudson Val.; probably widely distributed in State.
- N. sambuci** Felt. Produces an irregular, subcortical, polythalamous stem gall 2 to 6 cm. in length on elder. Nassau; NYC; probably widely distributed in State.
- N. sexmaculata** Felt. Nassau, Je 14.
- N. tenuitas** Felt. Albany, JI 30.
- N. tiliaginea** Felt. Nassau, Je 14, on basswood.
- N. tripunctata** Felt. Nassau, Je 30.
- N. viburnicola** Bt. Produces an irregular, subcortical swelling from 2 to 5 or 6 cm. long on the larger branches of arrowwood (*Viburnum dentatum*). Vic. NYC, common.
- N. vitinea** Felt. Highland Falls; Albany; W. Nyack; vic. NYC, common; **SI**, Je 15, reared from a conical petiole gall on grape; probably widely distributed in the State. The gall is about 1.5 cm. long and 0.5 cm. in diameter, and contains from two to four larvae in a long central chamber.

#### ASTEROMYIA Felt

- A. abnormis** Felt. Albany, JI 24.
- A. albomaculata** Felt. Jamesburg, reared from a diffuse, yellowish blister leaf gall 3 to 4 mm. in diameter on Aster leaves; Albany, adult captured on Solidago.
- A. agrostis** O.S. (*Lasioptera muhlenbergiae* Martin, and probably *Lasioptera carbonitens* Ckll.). Produces a somewhat cone-shaped, aborted apical gall on *Muhlenbergia mexicana*. Several localities in State.
- A. asterifoliae** Bt. Highland, reared Je-JI from a circular, white-ringed blister leaf gall.
- A. canadensis** Felt. Albany, May 21.
- A. carbonifera** Felt. Produces an oval, characteristic, jet-black, blister leaf gall on the narrow-leaved Solidago, *Solidago graminifolia*. Appears to be abundant in most localities where the food plant occurs.
- A. convoluta** Felt. Albany, Aug 11, reared from a loose, convolute tip gall on Solidago.

- A. divaricata** Felt. Albany, Ap, reared from large, oval, blister leaf galls with a diameter of 1.2 cm. on *Aster divaricatus*.
- A. flavoannulata** Felt. W. Nyack, Jl 25, reared from a marginal, circular, golden gray, blister leaf gall with a diameter of 3.5 mm. on *Solidago canadensis*.
- A. flavolunata** Felt. Albany, Mar and Ap, reared from a characteristic marginal, somewhat oval, yellowish blister gall on *Solidago*.
- A. flavomaculata** Felt. Albany, Mar 16, reared from a clouded blister gall, yellow beneath and dirty white above, with a length of 2 cm. and a diameter of 1.2 cm., presumably on aster.
- A. flavoscuta** Felt. Albany, Jl 16.
- A. laeviana** Felt. Albany, Sep, reared from a greenish yellow blister leaf gall with a diameter of 1.75 cm. on *Aster laevis*.
- A. marginata** Felt. Albany, Aug 7, reared from a yellowish white or light brown blister leaf gall on *Aster paniculatus*.
- A. modesta** Felt. Albany, reared from small, oval swellings appearing much like arrested buds on the stems of horseweed (*Erigeron canadensis*). The species is probably common.
- A. nitida** Felt. Meadowdale, Ap 17, reared from a large, smooth, glossy, yellowish, oval, blister leaf gall 6-8 mm. in diameter, on the basal leaves of an aster.
- A. paniculata** Felt. Albany, Aug 10, reared from an oval, yellowish or brownish, blister gall on the leaves of *Aster paniculatus*.
- A. pustulata** Felt. Albany, reared from a small, pustulate swelling 4 mm. long and 2 mm. in diameter on the side of aster stems.
- A. rosae** Felt. Albany, May 16, reared from an oval, blister-like leaf gall with a diameter of 1 cm., occurring on *Solidago rugosa*. The species is probably widely distributed.
- A. rubra** Felt. Albany, Jl 21, reared from a more or less elongated blister leaf gall on *Solidago rugosa*. This species is probably widely distributed in the State and has been recorded from a number of localities in the US.
- A. socialis** Felt. Reared Jl 26 from the adherent type of leaf gall on *Solidago canadensis* inhabited by *Asphondylia monacha* O.S. and *Camptoneuromyia adhesa* Felt. Albany.
- A. squarrosae** Felt. Rhinecliff, Jl 20, reared from a grayish brown, black-margined, irregular blister leaf gall on *Solidago squarrosa*.
- A. waldorfi** Felt. Karner, reared in early May from a circular, brownish leaf gall with a diameter of 3 mm., on a somewhat hairy unknown species of *Aster*.

#### CLINORHYNCHA Loew

- C. eupatoriflorae** Felt. Albany, reared in late Aug from apparently normal florets of thoroughwort.
- C. filicis** Felt. Nassau, Je 24, on a fern.
- C. karnerensis** Felt. Albany, Jl 5, on willow.
- C. millifolii** Wachtl. Vic. Albany, Aug, reared from florets of yarrow.

#### CAMPTONEUROMYIA Felt

- C. adhesa** Felt. Adirondacks; Nassau; W. Nyack, common, reared in Jl from an oval cell formed by the adhesion of two *Solidago* leaves.
- C. brevicauda** Felt. Nassau, Albany, Jl-Aug.



- C. hamamelidis* Felt. Albany, Je 12, on witch-hazel.
- C. flavescens* Felt. W. Nyack, Jl 29, 30, reared from a closely adherent, pyriform, apical leaf gall on *Solidago graminifolia*.
- C. fulva* Felt. Albany, Jl 3, on Cornus.
- C. virginica* Felt. Albany, Je 12, on witch-hazel.

## TROTTERIA Kieffer

- T. argenti* Felt. Albany, Jl 3, on New Jersey tea.
- T. caryae* Felt. Albany, Je 20, on hickory.
- T. caudata* Felt. Karner, Jl 5, on bush honeysuckle.
- T. karnerensis* Felt. Karner, Jl 5, on elder.
- T. metallica* Felt. Albany, Je 19, on hickory.
- T. solidaginis* Felt. W. Nyack, Jl 2, reared from *Solidago* material containing galls of *Camptoneuromyia adhesa* Felt and *Asphondylia monacha* O. S. This species has also been reared in association with *Asphondylia thalictri* Felt, and is probably zoophagous.
- T. squamosa* Felt. Albany, Jl 26, on New Jersey tea.
- T. subfuscata* Felt. Albany, Jl 17, on *Solidago*.
- T. tarsata* Felt. Albany, Jl 24, on scrub oak.

## Tribe OLIGOTROPHIARIAE

## PHYTOPHAGA Rondani

- P. aceris* Felt. Albany, May 21, on red maple.
- P. azaleae* Felt. Albany, May 18, on Azalea.
- P. balsamifera* Felt. L. Clear, Je 7, on balsam.
- P. caudata* Felt. Albany, May 9, on wild geranium.
- P. destructor* Say. THE HESSIAN FLY. Well known because of its occasionally very severe injury to wheat and barley, in particular. Is known to breed also in quack grass and Canadian rye grass. Generally distributed. Periodically destructive wherever wheat is grown. In Jefferson and St. Lawrence Counties, found in barley. One specimen found in Franklin Co.
- P. electra* Felt. Albany, May 18, on hazel.
- P. fraxini* Felt. Albany, Poughkeepsie, reared from leaf petioles of ash.
- P. latipes* Felt. Albany, Jl 6, on New Jersey tea.
- P. rigidae* O.S. Produces a characteristic beaked gall on willow. Appears to be widely distributed in the State, the adults appearing in early spring.
- P. socialis* Felt. Albany, Je 1, on early meadow rue.
- P. thalictri* Felt. Albany, Je 1, on early meadow rue.
- P. tsugae* Felt. L. Clear, Je 7, on hemlock.
- P. ulmi* Felt. Canandaigua; deforms the small terminal leaves or leaf buds of the American elm about NYC and probably occurs at Albany.
- P. violicola* Coq. THE VIOLET MIDGE. Has caused considerable injury in violet houses at Rhinebeck and presumably in other parts of the State.
- P. virginiana* Felt. Albany, May 23, on choke cherry.

## JANETIELLA Kieffer

- J. acerifolia* Felt. Albany, May 17.
- J. americana* Felt. Albany, Jl 17.
- J. breviarua* Felt. Albany, May 21.
- J. brevicornis* Felt. Nassau, Je 14, on Solidago.
- J. ligni* Felt. Nassau, May 8, reared from larvae in decaying chestnut bark.
- J. nodosa* Felt. Albany, Ap 28.
- J. parma* Felt. Woodworth's L., Je 21, *Alex.*
- J. pini* Felt. Albany, May 26, on pine.
- J. sanguinea* Felt. Nassau, May 15.
- J. tiliacea* Felt. Westfield, May 23, on basswood.

## OLIGOTROPHUS Latreille

- O. betulae* Winn. An introduced European species reared in 1886 from deformed white-birch catkins collected at Albany, the normal alate seed being transformed into a globose gall with rudimentary alae.
- O. inquilinus* Felt. Albany, Sep 11, reared from a large terminal rosette gall on Solidago.
- O. salicifolius* Felt. Karner, Mar-Apr, reared from irregular, yellowish, red-spotted leaf galls on *Salix humilis* collected in the preceding Sep; **LI**: Orient, Sep 22, from a gall, *Lath.*
- O. vernalis* Felt. Karner, May 19, on basswood.

## RHOPALOMYIA Rübsaamen

- R. abnormis* Felt. Huguenot Pk., Jl 14, in a trap lantern.
- R. albipennis* Felt. Albany, Aug 9-14, reared from a large terminal rosette gall on *Solidago canadensis*.
- R. anthophila* O.S. Produces a more or less cylindric, densely haired, flower-bud gall which appears to be widely distributed and occasionally locally abundant. Canandaigua, Sep, and Kings Bridge, on Solidago; **LI**: Orient, Sep.
- R. apicata* Felt. Nassau, Jl 7, in a trap lantern.
- R. arcuata* Felt. Albany, Je 4.
- R. asteriflorae* Felt. Albany, Sep 25, from stunted, abnormally bunched heads of *Aster paniculatus*.
- R. capitata* Felt. Produces a conspicuous terminal rosette gall. Moderately common in vic. of Albany.
- R. clarkei* Felt. Undoubtedly occurs in the State, though no definite locality can be given.
- R. fusiformis* Felt. Produces a rather common, ribbed, fusiform gall about 6 mm. long on the young leaves and flower stems of the narrow-leaved Solidago. Moderately common about Albany.
- R. hirtipes* O.S. Appears to be very common and widely distributed. Definite records are: Elizabethtown; Canandaigua; Nassau. Sep. Produces a characteristic apical bud gall on aerial stems and a variable deformation of root-stock buds.
- R. inquisitor* Felt. Produces a gall very similar to that of *R. capitata* Felt.

- R. lateriflori** Felt. Produces a globose, axillary bud gall on *Aster lateriflorus*. L. George.
- R. lobata** Felt. W. Nyack, Jl 17, reared from a subglobular stem gall on the narrow-leaved Solidago.
- R. major** Felt. Huguenot Pk., May 31, in a trap lantern.
- R. palustris** Felt. Nassau, Je 7.
- R. pedicellata** Felt. Produces a stemmed, fusiform gall some 2 cm. long on the narrow-leaved Solidago. Rather common in vic. of Albany.
- R. pini** Felt. Albany, Je 4.
- R. racemicola** O.S. Produces a firm, greenish or reddish, subglobular flower-bud gall with a diameter of about 2 mm. Common about Albany and Poughkeepsie, and probably in other parts of NY. Canandaigua L., Sep, on *Solidago caesia*; LI: Orient, Sep, *Lath*, on Solidago.
- R. solidaginis** Lw. Probably occurs in the State, and *R. capitata* Felt may prove to be identical with it. Hudson Falls, Sep, on Solidago.

**SACKENOMYIA** Felt

- S. acerifolia** Felt. Albany, May 17.
- S. viburnifolia** Felt. Produces purplish, fusiform vein swellings 5 mm. long and 3 mm. in diameter on arrowwood. Albany; Nassau; LI: Orient, Sep, from gall, *Lath*.

Tribe **ASPHONDYLIARIAE**

**SCHIZOMYIA** Kieffer

- S. altifila** Felt. L. Clear, Je 7, found in sweeping blueberry.
- S. caryaecola** Felt. Hamburg, reared from a jar containing a long, conic leaf gall on bitternut, or swamp hickory.
- S. coryloides** Walsh & Riley. Produces a leafy apical gall on grape somewhat resembling a bunch of filberts or hazelnuts. Springwater, Aug, on grape; Nassau.
- S. petiolicola** Felt. Canandaigua, Aug; Watervliet, Feb; Westfield, Ap 24, reared from an oval or fusiform petiole or tendril gall on summer grape (*Vitis bicolor*).
- S. pomum** Walsh & Rly. Produces a subglobose, polythalamous, chambered bud gall on grape. Presumably generally distributed; Westfield; Hamburg; vic. NYC.
- S. rubi** Felt. Karner, Jl 24, swept from high blackberry.
- S. viburni** Felt. Old Forge, Je 20.

**ASPHONDYLIA** Loew

- A. azaleae** Felt. Albany, Je 15-21, reared from unopened, brownish, fusiform buds of Azalea.
- A. conspicua** O.S. Produces an irregular, subglobular swelling of the flower heads some 5 mm. in diameter, and has been taken at Rensselaer; apparently the same species was captured in a trap lantern at Newport.
- A. diervillae** Felt. Albany, infesting the unopened buds of bush honeysuckle (*Diervilla trifida*).

- A. eupatorii** Felt. Canandaigua L.; Medina, Sep, reared by L. H. Weld from a green, fleshy stem gall on white snakeroot.
- A. fulvopedalis** Felt. Westfield, Jl 11, swept from Solidago.
- A. globulus** O.S. Produces a globose stem gall on sunflower. Vic. NYC; **LI**: Orient, Aug, Lath, on *Helianthus divaricatus*.
- A. helianthiflorae** Felt. Highland, Aug-Sep, reared from apparently unmodified flower heads of *Helianthus strumosus*.
- A. ilicioides** Felt. Old Forge, inhabiting oval, green, bud galls on *Illicioides mucronata*.
- A. monacha** O.S. A common, widely distributed species producing a small apical rosette gall on Solidago or developing in dwarfed flower-heads of several species of Solidago and at least one species of Aster. Has been reared also from an oval gall developing between two adherent leaves of Solidago.
- A. thalictri** Felt. Distorts the seed capsules of *Thalictrum*. Albany; Nassau.

#### CINCTICORNIA Felt<sup>97</sup>

- C. americana** Felt. Albany, Ap, reared from slight, blister-like swellings on the lateral veins of red oak.
- C. cornifolia** Felt. Albany, May 18, on flowering dogwood.
- C. multifila** Felt. Albany, Je 1, swept from white oak. Presumably a rather common species.
- C. pilulae** Walsh. Canandaigua, Oct, from gall on oak; Mt. Kisco, Sep 4; Albany, Je 1, on Rhus; **LI**: Orient, Sep 22, on oak.
- C. rhoina** Felt. Produces a reddish brown, coarsely reticulated, subglobose leaf gall. Occurs rather commonly in vic. of Albany, is presumably widely distributed in the State, and certainly has a considerable range in the eastern US.
- C. simpla** Felt. Vic. Albany, reared from irregular, oval, pustulate leaf swellings 5 to 6 mm. in diameter on red oak.
- C. transversa** Felt. Albany, May 18. Probably occurs on oak.

#### Tribe ITONIDIDINARIAE

##### TOXOMYIA Felt

- T. americana** Felt. Woodworth's L., Aug 21, in a bog swamp, *Alex*.

##### LOBOPTEROMYIA Felt

- L. abdominalis** Felt. Albany, May 15, swept from pine.
- L. apicalis** Felt. Albany, May 18, on basswood.
- L. caricis** Felt. Karner, May 16, on sedge.
- L. consobrina** Felt. Karner, May 16, on fern.
- L. filicis** Felt. Karner, May 16, on ferns.
- L. foetedi** Felt. Karner, May 16, on skunk cabbage.
- L. symplocarpi** Felt. Karner, May 16, on skunk cabbage.
- L. tiliae** Felt. Karner, May 16, on basswood.

<sup>97</sup> Besides those here listed, there are undoubtedly a number of other species of this genus which occur in the State, some presumably undescribed, in addition to an excellent series of species which have been brought to light through the untiring labors of the late Miss Cora H. Clarke, of Boston.

## CONTARINIA Rondani

- C. agrimoniae* Felt. Bath, Sep 3, reared from florets of *Agrimonia striata*.  
*C. ampelophila* Felt. Albany, Ap 26, on grape.  
*C. balsamifera* Felt. L. Clear, Je 7, very common about balsam trees.  
*C. canadensis* Felt. Southern Hudson R. Val., abundant; a possible maker of the familiar turgid midrib gall on ash generally ascribed to *Cecidomyia pellex*.  
*C. clematidis* Felt. Newport, Aug 12, reared from an irregular, subglobular gall on virgin's bower.  
*C. divaricata* Felt. Albany, Je 21, on hard pine.  
*C. flavolinea* Felt. Albany, Je 11.  
*C. johnsoni* Sling. Appears to be generally distributed in the Chautauqua grape region, and occasionally causes rather serious injury by blasting the blossom buds of grapes.  
*C. maculosa* Felt. Albany, Jl 17, on bittersweet.  
*C. obsesa* Felt. Albany, May 9, in pine woods.  
*C. perfoliata* Felt. Albany, Aug, reared from florets of thoroughwort.  
*C. pyrivora* Riley. A pest of pears, well established in the Hudson R. Val.; New Baltimore, May.  
*C. rumicis* Lw. Newport, Jl 18, reared from reddish or brown seeds of curled dock, *Yg.*  
*C. sambucifolia* Felt. L. Clear, Je 7, on elder.  
*C. trifolii* Felt. Albany, Je 1, on white clover.  
*C. truncata* Felt. Albany, May 25.  
*C. viatica* Felt. Albany, Je 9, on clover.  
*C. virginianiae* Felt. Infests the fruit of choke cherry (*Prunus virginiana*), producing an enlarged bladder condition. Appears to be widely distributed. Has been recorded from Bethlehem and Keene Valley, and is known from a number of New England localities.

## THECODIPLOSIS Kieffer

- T. hudsonici* Felt. Poughkeepsie, Ap 19, on red cedar.  
*T. liriodendri* O.S. TULIP SPOT GALL. Produces a dark, circular blister leaf gall on tulip. Canandaigua L., Sep; vic. Albany, sometimes common; Liverpool, Aug, *H.D.House*; Yonkers, Jl (Leon); Cornwall, Jl; Tivoli, Aug.  
*T. mosellana* Gehin. Batavia, reared from wheat chaff; Troy, Je, on rye heads.

## DENTIFIBULA Felt

- D. caryae* Felt. Albany, Je 19, on hickory.  
*D. viburni* Felt. Albany, Je 11, on maple-leaved arrowwood.

## Group TRIFILI

## YOUNGOMYIA Felt

- Y. podophyllae* Felt. Albany, Je 11, on May apple.  
*Y. producta* Felt. Karner, Jl 5, on bush honeysuckle.  
*Y. rubida* Felt. Nassau, Je 29, on sedge.  
*Y. umbellicola* O.S. Produces a conspicuous, globose enlargement of the blossoms of elder, and occurs generally in the State.



**DICRODIPLOSIS** Kieffer

- D. androgynes* Felt. Albany, Ap 28, on white pine.  
*D. annulata* Felt. Albany, Jl 6, swept from goldenrod and aster.  
*D. borealis* Felt. L. Clear, Je 7, on spruce.  
*D. insolens* Felt. Keene Val., Aug 12, *Not*.  
*D. longicornis* Felt. Nassau, Jl 9, in a trap lantern.  
*D. rubida* Felt. Albany, Jl 16, on elder.

**BREMIA** Rondani

- B. caricis* Felt. Nassau, Je 15, on sedge.  
*B. filicis* Felt. Karner, Je 26, swept from low ferns.  
*B. podophyllae* Felt. Albany, Je 21, on May apple.  
*B. sylvestris* Felt. Keene Val., Sep 15, *Not*.

**APHIDOLETES** Kieffer

- A. basalis* Felt. Albany, Oct 4, reared from tansy.  
*A. borealis* Felt. Albany, Aug 7, reared from tulip leaves.  
*A. flavida* Felt. Albany, Jl 24, on maple.  
*A. fulva* Felt. Albany, Jl 17, on blackberry.  
*A. hamamelidis* Felt. Albany, Je 27, on witch-hazel.  
*A. marginata* Felt. Nassau, Jl 15.  
*A. marina* Felt. **SI**: Huguenot Pk., Jl 14.  
? *A. meridionalis* Felt. Rye, Aug, on sea lavender, *Bird*.  
*A. recurvata* Felt. Keene Val., Sep 15, *Not*.

**LOBODIPLOSIS** Felt

- L. acerina* Felt. Appears to be widely distributed. Keene Val., Aug; Newport, Jl 25; Johnstown, Jl 20, *Alex*; Westfield, Jl 11, on red cedar; Nassau, Je 11; Albany, Je 15, on soft maple and choke cherry. Is very probably predacious, possibly aphidivorous.  
*L. borealis* Felt. Keene Val., Sep 4, *Not*.  
*L. cincta* Felt. Newport, Jl 23.

**COQUILLETOMYIA** Felt

- C. dentata* Felt. Newport, Jl 18, observed in numbers hanging from cobwebs.  
*C. lobata* Felt. L. Clear, Je 7, on blueberry.

**FELTIELLA** Ruebsaamen

- F. acerifolia* Felt. Albany, May (Felt). On elm and maple.  
*F. americana* Felt. Geneva, Jl (Felt). On plum.  
*F. emarginata* Felt. Nassau, Je (Felt); Newport; Keene Val., Sep, *Not*.  
*F. ithacae* Felt. Ithaca, *Griswold* (Felt). On rose.  
*F. minuta* Felt. Nassau, Je (Felt).  
*F. pini* Felt. Albany, Je (Felt). On *Pinus rigida*.

## KARSCHOMYIA Felt

- K. viburni** Felt. Keene Val., Aug 26, *Not*; Woodworth's L., *Alex*; Albany, Je 1, on sheepberry.

## CLINODIPLOSIS Kieffer

- C. examinis** Felt. Nassau, Je 19, occurring by the hundreds on a screen door or hanging from cobwebs attached thereto.  
**C. florida** Felt. Tarrytown, Je 13, on pear.

## MYCODIPLOSIS Rübsaamen

- M. acerifolia** Felt. Albany, May 17.  
**M. aestiva** Felt. Nassau, Je 25, in a trap lantern.  
**M. alternata** Felt. Albany, Je 11, on May apple. Has been swept from sugar maple and white pine.  
**M. angulata** Felt. Albany, Je 19, on hickory; Nassau; Poughkeepsie.  
**M. aurata** Felt. Albany, Je 11, on maple-leaved arrowwood.  
**M. captiva** Felt. Nassau, Je 10.  
**M. carolinae** Felt. Keene Val., Aug 29, *Not*.  
**M. cerasifolia** Felt. Ithaca, Aug, on Crataegus fruit.  
**M. cincta** n. sp. Johnstown, Jl 11, *Alex*.  
**M. contracta** Felt. Albany, Jl 24, on white pine.  
**M. coryli** Felt. Albany, Je 12, on hazel.  
**M. corylifolia** Felt. W. Nyack, Jl 23, reared from a fuzzy, wrinkled leaf fold gall on hazel produced by *Lasiopteryx coryli* Felt; Brooklyn, Sep 7, from black birch, *JJLevison*.  
**M. cyanococchi** Felt. Karner, Je 4, on blueberry.  
**M. emarginata** Felt. Newport, on burdock; Nassau, Je 10.  
**M. fibulata** Felt. Newport, Jl 23, in a trap lantern.  
**M. holotricha** Felt. Albany, May, reared from hickory leaf galls supposed to be those produced by *Caryomyia holotricha* O.S.  
**M. hudsoni** Felt. Albany, Je 10, on red maple.  
**M. impatientis** Felt. W. Nyack, Je 19, reared from exposed larvae living on a fungus, *Aecidium impatientis*, occurring on the stems of snapdragon.  
**M. intermedia** Felt. Keene Val., Aug 31, *Not*.  
**M. lenis** Felt. Keene Val., Aug 31, *Not*.  
**M. minuta** Felt. Nassau, Je 24.  
**M. modesta** Felt. Nassau, Je 14.  
**M. obscura** Felt. Albany, Je 11, on sugar maple.  
**M. packardi** Felt. Round L., Je 24, reared from *Pinus strobus*.  
**M. perplexa** Felt. Albany, Jl 16, on low blackberry.  
**M. pini** Felt. Albany, Je 21, on hard pine.

- M. populifolia** Felt. Albany, Sep 3, reared from bullet-like swellings at the base of poplar leaves.
- M. reducta** Felt. Karner, J1 5, on hard pine.
- M. robusta** Felt. Albany, Je 11.
- M. rotundata** Felt. Newport, J1 20.
- M. silvana** Felt. Nassau, Je 14, on hemlock.
- M. tenuitas** Felt. Poughkeepsie, Je 14, in a trap lantern.
- M. tsugae** Felt. L. Clear, Je 7, on hemlock.
- M. variabilis** Felt. Keene Val., Sep 4, *Not*; Nassau, J1 24.

#### PRODIPLOSIS Felt

- P. floricola** Felt. Albany, Aug 15, reared from somewhat enlarged, reddened flowers of the meadowsweet (*Spiraea salicifolia*); Karner, Aug 15, reared from enlarged blossoms of virgin's-bower (*Clematis virginiana*).

#### CARYOMYIA Felt

- C. antennaria** Wheeler. Little Falls, Sep, producing gall on *Antennaria plantaginifolia*.
- C. antennata** Felt. Produces one of the common hickory leaf galls. Albany and vic. Probably widely distributed.
- C. caryae** O.S. Produces a gall on hickory. Scarsdale, J1; Hudson Falls, Sep; vic. Albany; Mt. Kisco, J1 2; vic. NYC. Probably widely distributed.
- C. caryaecola** O.S. Produces a very slender, subglobose gall usually thickly clustered along the midrib of hickory leaves. Hamburg, Oct 17, on bitternut hickory. Appears to be relatively scarce.
- C. consobrina** Felt. Produces a small, thin-walled hickory leaf gall. Nassau.
- C. glutinosa** O.S. This is the name given to a larva living on the under surface of a hickory leaf, exposed except for the protection afforded by a viscid secretion. Vic. Albany and NYC, scarce.
- C. holotricha** O.S. Occurs commonly about Albany and NYC, and appears to be widely distributed.
- C. inanis** Felt. Nassau, Ap 29, reared from a hickory leaf gall having a more or less well-developed, empty chamber above the inhabited cavity.
- C. nucicola** O.S. Produces swellings in the green husks of shagbark hickory. Rhinebeck, Aug 9, 1860, O.S.
- C. persicoides** Bt. Produces a common, rather large, irregular, monothalamous, hairy gall on hickory, frequently 6 or 7 mm. in diameter and usually clustered along the midrib. Albany; Barrytown, on gall, Sep; vic. NYC; probably widely distributed.
- C. sanguinolenta** O.S. Vic. Albany and NYC, the galls being occasionally numerous.
- C. similis** Felt. Nassau, reared the latter part of Ap and in early May from supposedly typical galls of *Caryomyia caryae* O.S.
- C. thompsoni** Felt. Produces a yellow, green, or brown, melon-shaped gall with a depressed center, apparently taken by LHWeld at Ithaca.
- C. tubicola** O.S. Produces a characteristic, tubular, common hickory leaf gall which appears to be widely distributed throughout the State; Canandaigua L., Sep.

## ARTHROCNO DAX Rübsaamen

- A. acerina* Felt. L. Clear, Je 7, on maple.  
*A. cincta* Felt. Albany, Je 13.  
*A. fenestra* Felt. Nassau, Jl 22.  
*A. filicis* Felt. Karner, Je 4, on fern; Nassau, Jl 9, in a trap lantern.  
*A. fraxini* Felt. Albany, Je 10, on ash.  
*A. incisa* Felt. Albany, May 21.  
*A. obscura* Felt. Karner, Je 26, on blueberry.  
*A. rhoina* Felt. Albany, Aug 27, reared from curled leafy heads of sumac.  
*A. rufa* Felt. Albany, Jl 24, on hickory.  
*A. sambucifolia* Felt. Albany, Sep 13, reared from rolled elder leaves.

## HORMOMYIA Loew

- H. alexanderi* Felt. Johnstown, Jl 7, swept from palustral grasses, *Alex.*  
*H. americana* Felt. Nassau, May 28 and 31, in a trap lantern. Appears to be fairly common.  
*H. canadensis* Felt. Reared in early Ap from a subglobose, greenish or deep reddish, lipped leaf gall on shadbush. Fairly common in vic. of Albany.  
*H. clarkei* Felt. L. Placid, inhabiting a terminal bud gall on *Spiraea salicifolia*.  
*H. consobrina* Felt. Albany, Je 6, on Azalea.  
*H. crataegifolia* Felt. Reared in early Ap from a cockscomb leaf gall on *Crataegus*. A very local species occurring in the vicinity of Nassau, though probably rather widely distributed; L. Placid Club, Jl; Newport, Jl, *GSGraves*; **LI**: Orient, Aug 12.  
*H. dilatata* Felt. Newport, Je 27, in a trap lantern.  
*H. incisa* Felt. Nassau, Jl 8, in a trap lantern.  
*H. maxima* Felt. Johnstown, Je 8, swept from palustral grasses, *Alex.*  
*H. palustris* Felt. Ithaca, May 20, captured in considerable numbers on a lake marsh.

## MONARTHROPALPUS Rübsaamen

- M. buxi* Lab. A European species which has become well established in several LI localities and is best known because of its injury to the foliage of ornamental box. Westchester Co, Jan 9, *Atwood*; New Rochelle, May; **LI**: Mineola, Ap 2, larvae; Woodlawn Cemetery, Ap 16, larvae, *Bt*; Roslyn, May, Aug; Sea Cliff, Ap 8, *Levison*.

## HYPERDIPLOSIS Felt

- H. insolens* Felt. Keene Val., Aug 26, *Not.*  
*H. lobata* Felt. Karner, Je 4, on white clover.

## GIARDOMYIA Felt

- G. emarginata* Felt. Newport, Jl 2, in a trap lantern.  
*G. hudsonica* Felt. Poughkeepsie, Je 9, in a trap lantern.  
*G. menthae* Felt. Karner, Jl 27, reared from mint (*Mentha canadensis*) bearing pustule-like galls on the stem.

- G. montana* Felt. Newport, Je 16, in a trap lantern; **SI**: Huguenot Pk., Jl 14.  
*G. noveboracensis* Felt. Nassau, Je 10.  
*G. photophila* Felt. Newport, Je 16, in a trap lantern.

#### METADIPLOSIS Felt

- M. spinosa* Felt. Albany, Jl 14, on quack grass.

#### EPIDIPLOSIS Felt

- E. sayi* Felt. Nassau, Jl 1.

#### LESTODIPLOSIS Kieffer

- L. apocyniflorae* Felt. Nassau, Aug 9, reared from apparently normal flower buds of dogbane.  
*L. asclepias* Felt. Highland and Albany, Aug, reared from rolled leaves of milkweed (*Asclepias Cornuti*).  
*L. asteris* Felt. Albany, Jl 17, on aster.  
*L. basalis* Felt. Albany, Jl 6, on New Jersey tea.  
*L. caliptera* Fitch. Undoubtedly belongs to this genus though insufficiently characterized.  
*L. cerasi* Felt. W. Nyack, Jl 26, reared from variable, oval or fusiform, twig swellings on wild cherry. The species is probably predacious.  
*L. cincta* Felt. Albany, Jl 3, on New Jersey tea.  
*L. clematiflorae* Felt. Karner, Aug 28, reared from unopened flowers of virgin's-bower (*Clematis virginiana*).  
*L. crataegifolia* Felt. Bath, Jl 17, reared from an irregular, rather spiny gall on the upper surface of a Crataegus leaf. The species is probably predacious.  
*L. eupatorii* Felt. Reared Sep 12 from globose galls in flower heads of *Eupatorium ageratoides*. South Bay; Glen L.; L. Champlain.  
*L. flavomarginata* Felt. Albany, Je 1, on white clover.  
*L. hicoriae* Felt. Nassau, Je 14, on hickory.  
*L. juniperina* Felt. Nassau, Aug 7.  
*L. platanifolia* Felt. NYC, Aug 1, reared from plane-tree leaves.  
*L. populifolia* Felt. Albany, Jl 22, reared from a marginal leaf roll on poplar. The species is probably predacious.  
*L. rugosa* Felt. Albany, Jl 15, reared from Solidago galls.  
*L. rumicis* Felt. Newport, Jl 29, reared from curled dock seeds infested by *Contarinia rumicis*.  
*L. satiata* Felt. Keene Val., Aug 28, *Not*.  
*L. scrophulariae* Felt. W. Nyack, Aug 8, reared from distorted flower buds of *Scrophularia marilandica*.  
*L. solidaginis* Felt. Albany, Aug 20, reared from a gall in association with *Rhopalomyia albipennis* Felt.  
*L. spiraeafolia* Felt. Albany, Aug 23, reared from a thickened leaf fold on meadow-sweet, *Spiraea tomentosa*.  
*L. triangularis* Felt. W. Lebanon, Aug 26, reared from Solidago leaves.  
*L. tsugae* Felt. L. Clear, Je 7, on hemlock.  
*L. verbenifolia* Felt. Karner, Jl 20, from rolled leaves of *Verbena urticæfolia*.



## PARADIPLOSIS Felt

*P. obesa* Felt. L. Clear, Je 7, on hemlock.

## PARALLELODIPLOSIS Rübsaamen

- P. acernea* Felt. Nassau, Je 14, on red maple.  
*P. carpini* Felt. Albany, Je 21, on ironwood.  
*P. caryae* Felt. Albany, Je 19, on hickory.  
*P. coryli* Felt. Albany, Je 11, on hazel.  
*P. extensa* Felt. Albany, Je 11, on locust (*Robinia Pseudo-Acacia*).  
*P. montana* Felt. Newport, Jl 20, *Yg.*  
*P. pratensis* Felt. Albany, Aug 6, on pine.  
*P. rubisolita* Felt. Albany, Jl 24, on low blackberry.  
*P. rubrascuta* Felt. Albany, Je, on ash.  
*P. spirae* Felt. Produces a variable yellowish or reddish marginal leaf roll on *Spiraea salicifolia*. Albany.  
*P. subtruncata* Felt. Albany, Jl 6, on Solidago.  
*P. triangularis* Felt. Nassau, Jl 2 and 6.

## OBOLODIPLOSIS Felt

- O. robiniae* Hald. (*orbiculata* Felt). Albany, Je 10, on black locust; Kingston; LI: Orient, Aug 25. Presumably widely distributed in the State.

## ITONIDA Meigen

- I. abdominalis* Felt. Albany, Je 1, on hickory.  
*I. agraris* Felt. Newport, Nassau, Je-Jl.  
*I. albotarsa* Felt. Albany, Je 19, on hickory.  
*I. americana* Felt. Poughkeepsie, Je 28, in a trap lantern.  
*I. antennata* Felt. Albany, May 21.  
*I. aphidivora* Felt. Nassau, reared in numbers from apple leaves infested by the rosy aphid.  
*I. apicalis* Felt. Newport, Je 27, in a trap lantern, *Yg.*  
*I. apocyni* Felt. Nassau, Aug 21, reared from unopened, apparently normal blossoms of spreading dogbane.  
*I. aprilis* Felt. Among the early-appearing forms collected at Albany.  
*I. catalpae* Comst. Albany, Jl.  
*I. claytoniae* Felt. Albany, May 18.  
*I. emarginata* Felt. Albany, May 17; Nassau, Je 30.  
*I. excavationis* Felt. Albany, May 21, on soft maple.  
*I. explicata* Felt. Albany, Jl 6.  
*I. flavoscuta* Felt. Albany, May 21.  
*I. foliora* Rssl. & Hkr. Produces a somewhat characteristic marginal leaf fold on certain oak leaves. Common and widely distributed in NY. Canandaigua, Jl 20; Hudson Falls, Sep.  
*I. fragariae* Felt. Albany, Je 18, on strawberry.

- I. hartmania* Felt. Albany, Ap 15, near a decaying hickory stump.
- I. hudsoni* Felt. Poughkeepsie, Ap 19, on red cedar.
- I. infirma* Felt. Albany, Je 15, on Syringa.
- I. nixonii* Felt. Albany, Jl 6, on New Jersey tea.
- I. opuntiae* Felt. Reared from discolored, more or less decaying areas on various species of *Opuntia* collected in the NY Botanical Gardens at Bronx Pk.
- I. paucifila* Felt. Albany, Je 15, on Deutzia.
- I. piperitae* Felt. Nassau, Sep 4, reared from small, enlarged terminal buds on peppermint (*Mentha piperita*).
- I. pugionis* Felt. Nassau, May 4, reared from chestnut and maple bark infested with numerous *Miastor americana* Felt larvae.
- I. putrida* Felt. Reared from decaying birch wood inhabited by numerous larvae of *Bolitophila cinerea* Meign.
- I. quercina* Felt. Albany, Je 21, on swamp white oak.
- I. ramuli* Felt. Albany, May 25, reared from a small, monothalamous, almost imperceptible, twig enlargement on *Cornus paniculata*.
- I. recurvata* Felt. Poughkeepsie, Je 21, in a trap lantern.
- I. ruricola* Felt. Nassau, Je 15, on sedge.
- I. sanguinia* Felt. Nassau, Je 24, on fern.
- I. setariae* Felt. Albany, Aug 25, reared from seeds of the common fox-tail grass (*Alopecurus pratensis*).
- I. spiraeae* Felt. Albany, Aug 27, reared from slightly enlarged, reddened flowers of *Spiraea salicifolia*.
- I. tecomiae* Felt. Albany, reared from larvae distorting and rolling leaves of the trumpet vine.
- I. terrestris* Felt. Poughkeepsie, Je 21, in a trap lantern.
- I. tolhurstae* Felt. Albany, Je 30, on sumac.
- I. tritici* Felt. Presumably the wheat midge, a well-known pest of wheat in earlier years and one widely distributed in this State and probably throughout the wheat-growing areas of the US. Belle Isle (NYS Rept 15).
- I. verbenae* Bt. Karner, Jl 20, from rolled terminal leaves of *Verbena urticaefolia*.

#### RETINODIPLOSION Kieffer

- R. albitarsis* Felt. Round L., Je 24, reared from *Pinus strobus*.
- R. inopis* O.S. Produces obscure, subcortical swellings in the smaller branches of scrub pine (*Pinus rigida* and *P. virginiana*). Common in vic. of Albany. Presumably widely distributed.
- R. resinicola* O.S. THE PITCH MIDGE. The common, widely distributed species inhabiting exuding masses of pitch. The larvae are remarkable because of their living within this resinous medium. Karner; Mechanicville, Sep.

#### ODONTODIPLOSION Felt

- O. americana* Felt. Albany, Jl 3 on alder, Jl 24 on low blackberry.
- O. karnerensis* Felt. Karner, May 16.
- O. montana* Felt. Newport, Jl 27, on hemlock, *Yg*.

## ADIPLOSIS Felt

**A. toxicodendri** Felt. Nassau, Je 14, on poison ivy.

CECIDOMYIA<sup>98</sup>

- C. balsamicola** Lint. Deforms balsam leaflets. Is widely distributed. Adult has not been definitely connected with its food plant. ?North Creek, Aug.
- C. bedeguar** Walsh. Shushan, Je 14, gall on *Crataegus*.
- C. boehmeriae** Bt. Produces a fusiform stem swelling on nettle (*Boehmeria*), and is probably a species of *Lasioptera*. Shushan.
- C. celastri** Stebb. Probably identical with the species producing a subcortical stem swelling on *Celastrus* at W. Nyack.
- C. citrina** O.S. Produces variable petiole and twig swellings on linden. Rhinebeck. Apparently widely distributed in the State.
- C. collinsoniae** Bt. Produces a green, onion-shaped, pubescent swelling on the under side of the leaves of *Collinsonia*. Garrison. Probably widely distributed.
- C. erubescens** O.S. Produces a common marginal leaf fold. *Itonida foliora* Rssl. & Hkr. may prove to be a synonym.
- C. eupatoriiflorae** Bt. Produces globose enlargements of the flower head of *Eupatorium ageratoides*. Vic. NYC.
- C. fulva** Bt. Produces a globular, succulent swelling of stem, petiole, or leaf. Recorded from Shushan. Probably widely distributed in the State. Has been provisionally referred to the genus *Lasioptera*.
- [*C. grossulariae* Fitch. Inhabits gooseberries, and is presumably a NY species.]
- C. impatiensis** O.S. Canandaigua, Aug 31; Newport, Aug, Yg. Appears to be common in the State. Inhabits a nearly globose, succulent swelling at the base of the flower of *Impatiens fulva*.
- C. inimica** Fitch. Observed by Dr. Fitch in wheat fields infested by the wheat midge.
- C. majalis** O.S. Produces a thin-walled, more or less wrinkled gall along the midrib of oak which may be identical with that from which *Clinodiplosis florida* Felt was reared. Moderately common in the State.
- C. meibomiaae** Bt. Produces an elongate, fusiform, clustered bud growth on various species of tick trefoil. Vic. NYC. Probably widely distributed.
- C. niveipila** O.S. Produces a common swollen vein fold margined with a white pubescence, on various oaks. Hudson Falls, Je 6, on black oak and *Quercus prinus*.
- C. nyssaecola** Bt. Produces a narrow, marginal leaf fold on sour gum (*Nyssa sylvatica*). Vic. NYC, very common.
- C. ocellaris** O.S. Produces a common and widely distributed, circular, yellowish and red-margined discoloration on soft maple leaves.
- C. pellex** O.S. Produces a subglobular ash leaf gall, quite different from the gall usually considered as being produced by this species. Canandaigua, Je 4; southern Hudson R. Val., moderately common.
- C. pinirigidiae** Pk. Produces deformed pine needles with a swollen base. The true gall-maker has not been reared. Moderately common on **LI** and in vic. of Albany.

<sup>98</sup> The species of *Cecidomyia* are of uncertain generic location.

- C. poculum** O.S. Produces a moderately common, circular, flat stem gall on the leaves of post oak. Millbrook, Aug 24; NYC, Oct.
- C. pudibunda** O.S. Inhabits a red-tinged leaf fold on hornbeam. The gall is common and widely distributed.
- C. serotinae** O.S. Transforms the terminal buds on young shoots of wild cherry into globose, red-tinted swellings about the size of a cherry. Moderately common and widely distributed; **LI**: Fishers I., Jan 19, on gall.
- C. tuba** Stebb. Vic. Albany, scarce. Inhabits a slender, curved tube 10 to 16 mm. long and about 2 mm. in diameter, occurring on the leaves of *Cornus amomum*.
- C. urnicola** O.S. Produces an urn-shaped, sessile, pale green, semitransparent, succulent leaf gall on *Urtica gracilis*. Ithaca; Trenton Falls. Probably widely distributed.
- C. venae** Stebb. Probably identical with *Lobopteromyia venae* Felt, a species recorded from Nassau.
- C. verrucicola** O.S. Produces a subglobular, green or brown, leaf gall on linden. Highland Falls, Nov 14; ?Newport, J1 23. Widely distributed, and occasionally very abundant.
- C. sp.** Little Falls, Sep 10, galls on *Eupatorium ageratoides*.
- C. viticola** O.S. Produces an elongate, conical, reddish or green leaf gall on wild grape. Canandaigua, Oct 5; Highland, rather common. Probably widely distributed in the State.
- C. sp.** Hudson Falls, J1 6, producing gall on *Laportea canadensis*.

#### FAMILY MYCETOPHILIDAE

##### SUBFAMILY BOLITOPHILINAE

##### BOLITOPHILA Meigen

- B. cinerea** Meig. Buffalo, May (MCV); Ithaca, May, Sep (Joh); Albany, Apr-May (Yg).
- B. disjuncta** Lw. Albany, May (Yg).
- B. hybrida** Meig. Wells, J1 (Yg); Little Valley, J1 (MCV); Albany, May; McLean, Je, Sib (Joh).
- B. montana** Coq. Ithaca, Sep (Joh).

##### PALAEOPLATYURA Meunier

- P. johnsoni** Joh. Ithaca, Je (Joh).

##### SYMMERUS Walker

- S. lautus** Lw. N. Evans, J1 (MCV); Little Valley, Je (MCV); Ithaca, Aug (Joh).

##### SUBFAMILY DIADOCIDIINAE

##### DIADOCIDIA Ruthe

- D. ferruginosa** Meig. Wells, J1 (Yg); Erie Co, May-Aug (MCV); Ithaca, Aug (Jn).

## SUBFAMILY CEROPLATINAE

## ASINDULUM Winnertz

- A. montanum* Roeder. Adirondacks, Aug (Joh); Speculator; Long L., Aug; Little Valley, Jl (MCV); Beaver Kill (CnJr); McLean, Sep, *Sib* (Joh); Oliverea (Beq).

## CEROPLATUS Bosc

- C. clausus* Coq. S. Wales, Jl (MCV); Ithaca (Joh).  
*C. militaris* Joh. Ithaca (Joh).

## PLATYURA Meigen

- P. diluta* Lw. Ithaca; McLean, Jl (Joh).  
*P. elegans* Coq. Ithaca, Jl (Joh); Yonkers (AM).  
*P. fascipennis* Say. Little Valley, Je (MCV).  
*P. genualis* Joh. Lancaster, Hamburg, Je (MCV); McLean, Jl, *Sib* (Joh).  
*P. inops* Coq. Ithaca, Jl (Joh).  
*P. mendica* Lw. Little Valley, Je (MCV); Ithaca (Joh).  
*P. mendosa* Lw. Wells, Jl (Yg); S. Wales, Jl (MCV); Little Valley, Je (MCV); Ithaca (Joh).  
*P. moerens* Joh. S. Wales (MCV).  
*P. subterminalis* Say. Ithaca, Jl (Joh).

## SUBFAMILY MACROCERINAE

## MACROCERA Meigen

- M. clara* Lw. L. Placid, Je (Yg); Wells, Jl (Yg); S. Wales, Jl (MCV); Little Valley, Jl; Ithaca (Joh); Albany, May.  
*M. formosa* Lw. Little Valley, Jl (MCV); Ithaca, Jl (Joh); Beaver Kill, Aug (CnJr).  
*M. geminata* Joh. Buffalo, Je (MCV); Ithaca, Je (Joh).  
*M. hirsuta* Lw. Mountain Lake, Je (Yg); Wells, Jl; S. Wales, Jl; Colden, Aug-Sep (MCV).  
*M. immaculata* John. Niagara Falls, Je (Jn).  
*M. inconcinna* Lw. Niagara Falls, Je (Jn).  
*M. nebulosa* Coq. S. Wales, Jl (MCV).

## SUBFAMILY SCIOPHILINAE

## MONOCLONA Mik

- M. elegantula* Joh. Erie Co, Je-Sep (MCV); Ithaca, Aug (Joh).

## EUDICRANA Loew

- E. obumbrata* Lw. Wells, Jl (Yg).



## TETRAGONEURA Winnertz

- T. bicolor** Coq. Ithaca, Je (Joh).  
**T. pimpla** Coq. Speculator (Yg); Gowanda, Je (MCV).

## SCIOPHILA Meigen

(Lasiosoma Winnertz)

- S. galbana** Joh. Ithaca (Joh); Albany, Je (Yg).  
**S. galbana** var. **socia** Joh. Wells, Je (Yg); Grand I., Je (MCV).  
**S. habilis** Joh. Ithaca (Joh).  
**S. incallida** Joh. Gowanda, Je (MCV); Ithaca (Joh).  
**S. novata** Joh. Hamburg, Oct (MCV); Ithaca (Joh).  
**S. nugax** Joh. Ithaca, Aug (Joh).  
**S. pallipes** Say. Hamburg, Mar; Colden, Aug (MCV); Ithaca (Joh).  
**S. severa** Joh. Ithaca, Jl (Joh).

## PARATINIA Mik

- P. recurva** Joh. Old Forge, Aug (Joh).

## POLYLEPTA Winnertz

- P. obediens** Joh. Wells, Jl (Yg); Colden, Aug (MCV).

## EMPALIA Winnertz

- E. tibialis** Coq. McLean, Jl, Sib (Joh).

## DIOMONUS Walker

- D. magnificus** Joh. Hamburg, Aug, S. Wales, Jl (MCV); Ithaca, Jl (Joh).  
**D. pulcher** Joh. Axton, Je (Joh); McLean, Sib (Joh).  
**D. subcaeruleus** Coq. Protection (MCV); foot of Cliff Mt., 3000 ft. (Beq).

## NEOEMPHERIA Osten Sacken

- N. balioptera** Lw. Erie Co, Je (MCV); Ithaca, Jl (Joh).  
**N. illustris** Joh. Ithaca (Joh); Poughkeepsie, Aug (Yg).  
**N. impatiens** Joh. Boston, Sep (MCV).  
**N. indulgens** Joh. Erie Co, Je, Jl (MCV); Ithaca, Jl (Joh).  
**N. macularis** Joh. Cranberry Cr., Je (Yg); Hamburg, Jl (MCV); Ithaca (Joh).

## MYCOMYA Rondani

- M. appendiculata** Lw. "NY" (Lw).  
**M. brevivittata** Coq. Wells, Jl (Yg); Ithaca (Joh).  
**M. imitans** Joh. Wells, Jl (Yg); E. Aurora, Sep (MCV); Ithaca (Joh).  
**M. incompta** Joh. Ithaca (Joh).

- M. littoralis* Say. Old Forge; Wells, JI; Erie Co, May-Sep (MCV); Ithaca, JI (Joh); Albany, May (Yg).  
*M. maxima* Joh. E. Aurora, Sep (MCV).  
*M. mendax* Joh. Wells, JI (Yg).  
*M. nigricauda* Adams. S. Wales, JI (MCV).  
*M. obliqua* Say. Erie Co, Aug, Sep (MCV); Ithaca, JI (Joh).  
*M. sequax* Joh. Wells, JI (Yg); Ithaca (Joh).

## SUBFAMILY MYCETOPHILINAE

## GNORISTE Meigen

- G. megarrhina* O.S. Ithaca, May, Je (Joh).

## ACNEMIA Wilmertz

- A. flaveola* Coq. E. Aurora, Aug (MCV); Ithaca (Joh).  
*A. psylla* Lw. Niagara Falls, Aug (MCV); Ithaca, Aug, Sep (Joh).

## RONDANIELLA Johannsen

- R. abbreviata* Lw. Colden, May, S. Wales, JI (MCV); Ithaca (Joh); Albany, Ap (Yg).  
*R. sororcula* Lw. "NY" (Lw).

## LEPTOMORPHUS Curtis

- L. ypsilon* Joh. Ithaca (Joh).

## BOLETINA Staeger

- B. cincta* Joh. Old Forge, JI (Joh); S. Wales, JI (MCV).  
*B. imitator* Joh. Erie Co, May, Sep (MCV).  
*B. notescens* Joh. Adirondacks, Aug; Ithaca, Je (Joh).  
*B. obscura* Joh. Ithaca (Joh).  
*B. sciarina* Staeg. Lancaster, Ap; Hamburg, Ap-Oct (MCV).  
*B. tricineta* Lw. Niagara Falls, Je (Jn); Erie Co, Je, Aug (MCV); Ithaca, Aug (Joh).  
*B. unusa* Garr. Ithaca (Garr), monotype.

## LEIA Meigen

*(Neoglyphyoptera* Osten Sacken)

- L. bivittata* Say. Colden, Aug (MCV); Ithaca, Aug, Sep (Joh); Albany, Oct (Yg).  
*L. decora* Lw. Ithaca, Je-Sep (Joh).  
*L. melaena* Lw. Wells, JI (Yg).  
*L. oblectabilis* Lw. Ithaca, JI-Sep (Joh).  
*L. opima* Lw. Niagara Falls, Je (MCV); Erie Co, Je-Sep (MCV); Ithaca, JI-Sep (Joh).

- L. striata* Will. Buffalo, Sep (MCV).  
*L. sublunata* Lw. Erie Co, Je-Sep (MCV); Ithaca (Joh).  
*L. ventralis* Say. Karner, Oct (Yg).  
*L. winthemi* Lehmann. Saranac Inn; L. Tear, 4300 ft. (Beq); Erie Co, Je-Jl (MCV); Little Valley, Je (MCV); Ithaca, Je (Joh); Meadowdale, Aug (MCV).

## PHTHINIA Winnertz

- P. curta* Joh. Ithaca (Joh).  
*P. tanypus* Lw. Old Forge (Joh).

## DOCOSIA Winnertz

- D. dichroa* Lw. Niagara Falls, Je (MCV); Hamburg, Colden, May (MCV); Ithaca, Je (Joh); New Baltimore, May (Yg).

## SYNTEMMA Winnertz

- S. polyzona* Lw. McLean, Jl, *Sib* (Joh).

## ANATELLA Winnertz

- A. silvestris* Joh. Wells, Jl (Yg); Ithaca, Mar, Aug (Joh).

## TRICHONTA Winnertz

- T. diffissa* Joh. Ithaca, Aug (Joh).  
*T. patens* Joh. Wells, Jl (Yg); Ithaca, May, Aug (Joh).  
*T. triangularis* Joh. Wells, Jl (Yg); Ithaca (Joh).

## CORDYLA Meigen

- C. manca* Joh. Ithaca (Joh).  
*C. recens* Joh. Colden, Aug (MCV); Ithaca, Caroline, Je-Jl (Joh).  
*C. volucris* Joh. Ithaca, Oct (Joh); Meadowdale, Oct.

## BRACHYPEZA Winnertz

- B. bisignata* Winn. var. *divergens* Joh. Little Valley, Je (MCV).

## RHYMOSIA Winnertz

- R. captiosa* Joh. McLean, Sep, *Sib* (Joh).  
*R. inflata* Joh. Erie Co, Je, Sep (MCV); Ithaca, Oct-Nov (Joh).  
*R. serripes* Joh. Ithaca, Aug (Joh).

## ALLODIA Winnertz

- A. actuaria* Joh. Colden (MCV); Ithaca (Joh).  
*A. beata* Joh. Wells, Jl (Yg); Ellis, Ithaca, Aug (Joh).  
*A. bulbosa* Joh. Wells, Jl (Yg); Ithaca, Je (Joh).

- A. crassicornis* Stann. Wells, J1 (Yg); Niagara Falls, Sep (Joh); Ithaca, May, J1.  
*A. falcata* Joh. Wells, J1 (Yg); Rochester, Sep (MCV); Ithaca, Sep (Joh).

## PHRONIA' Winnertz

- P. difficilis* Joh. Wells, J1; Ithaca, Aug (Joh); Albany, May (Yg).  
*P. insulsa* Joh. Wells, J1 (Yg); Ithaca, Aug (Joh); McLean, *Claas* (Joh).  
*P. rustica* Winn. Ithaca, Aug (Joh).  
*P. similis* Joh. Wells, J1 (Yg); Ithaca, Sep (Joh).  
*P. venusta* Joh. Albany, May (Yg).

## TELMAPHILUS Becker

- T. nebulosus* Joh. Colden, Aug (MCV); Ithaca, Ap (Joh).

## EXECHIA Winnertz

- E. abrupta* Joh. Ithaca (Joh).  
*E. absoluta* Joh. Buffalo, Oct (MCV); Ithaca (Joh).  
*E. absurda* Joh. Wells, J1 (Yg); Ithaca (Joh).  
*E. attrita* Joh. Ithaca, Aug (Joh).  
*E. auxiliaria* Joh. Ithaca (Joh).  
*E. bella* Joh. Ithaca (Joh).  
*E. capillata* Joh. Ithaca, May (Joh).  
*E. casta* Joh. E. Aurora, Aug (MCV).  
*E. cincinnata* Joh. Buffalo, Nov (MCV); Ithaca (Joh); Albany, May.  
*E. nexa* Joh. Ithaca (Joh).  
*E. nativa* Joh. Niagara Falls, Sep (MCV); Ithaca, Nov (Joh).  
*E. nugatoria* Joh. Niagara Falls, Oct (MCV); Erie Co, May-Nov; Ithaca (Joh); Albany, May (Yg).  
*E. nugax* Joh. Ithaca, Aug (Joh).  
*E. quadrata* Joh. Ithaca, Aug (Joh).  
*E. repanda* Joh. Ithaca, Aug (Joh).  
*E. satiata* Joh. Ithaca (Joh).  
*E. umbratica* Ald. Wells, J1 (Yg); Ithaca (Joh).

## DYNATOSOMA Winnertz

- D. errans* Garr. Ithaca, J1 (Garr).  
*D. fulvida* Coq. Ithaca, Je (Joh).  
*D. bifasciata* Walk. (*nigrina* Joh.). S. Wales, J1 (MCV).  
*D. placida* Joh. Niagara Falls, Aug (MCV).

## OPISTHOLOBA Mik

- O. ocellata* Joh. Wells (Yg); Ithaca, Aug (Joh).

## EPICYPTA Winnertz

*E. trinotata* Staeg. Ithaca, Je-Aug (Joh).

## MYCOTHERA Winnertz

*M. fenestrata* Coq. Buffalo, Mar, May (MCV).

*M. fenestrata* var. *praenubila* Joh. Ithaca, Ap (Joh).

*M. impellans* Joh. Ithaca, Aug (Joh).

*M. paradoxa* Joh. Wells, Jl (Yg); Ithaca (Joh).

*M. paula* Lw. Wells, Jl; Ithaca, Oct (Joh); Albany, May (Yg).

*M. recta* Joh. Wells, Jl (Yg); Ithaca, Aug (Joh).

## MYCETOPHILA Meigen

*M. bipunctata* Lw. Erie Co, May-Jl; Niagara Falls, Sep (MCV); Ithaca, Je-Aug (Yg).

*M. edentula* Joh. Wells, Jl; Albany, May (Yg).

*M. edura* Joh. Ithaca, Aug (Joh).

*M. extenta* Joh. Ithaca, Ap (Joh); Albany, May (Yg).

*M. exusta* Joh. Colden, May (MCV).

*M. falcata* Joh. Ithaca, May (Joh).

*M. fastosa* Joh. Wells, Jl; Albany, May (Yg); Ithaca (Joh); S. Wales, Jl (MCV).

*M. foecunda* Joh. Ithaca, Nov (Joh).

*M. ichneumon* Say. Niagara Falls, Je (Jn).

*M. imitator* Joh. Hamburg, Ap (MCV); Ithaca (Joh).

*M. inculta* Lw. Ithaca, May-Aug (Joh).

*M. jucunda* Joh. Ithaca, Aug (Joh).

*M. lenta* Joh. Wells, Jl; Albany, May (Yg).

*M. monochaeta* Lw. Colden, Aug (MCV).

*M. mutica* Lw. Wells, Jl (Yg); Erie Co, May, Je (MCV).

*M. perita* Joh. Ithaca, Jl (Joh).

*M. perlonga* Joh. Wells, Jl; Ithaca, Aug (Joh); Albany, May.

*M. polita* Lw. Colden, Aug (MCV); Ithaca, Jl (Joh).

*M. procera* Lw. "NY" (Lw).

*M. propinqua* Wlk. "NY" (Wlk).

*M. punctata* Meig. Axton, Je; Erie Co, May-Nov (MCV); Ithaca, Jl (Joh).

*M. quatuornotata* Lw. Erie Co, Je-Oct (MCV).

*M. scalaris* Lw. Niagara Falls, Je; Erie Co, May, Aug; Rochester, Sep (MCV); Ithaca, Je-Oct (Joh).

*M. socia* Joh. Ithaca, Aug (Joh); Albany, May (Yg).

*M. trichonota* Lw. Ithaca, Jl, Aug (Joh); Albany, May (Yg).



## DELOPSIS Skuse

*D. anomala* Joh. Hamburg, May (MCV); McLean, May; Ithaca, Aug (Joh).

## PNYXIA Johannsen

*P. scabiei* Hopk. Rhinebeck (Joh).

## SCEPTONIA Winnertz

*S. nigra* Meig. Wells, Jl (Yg); Colden, May (MCV); Ithaca, Aug (Joh).

## ZYGOMYIA Winnertz

*Z. ignobilis* Lw. Wells, Jl (Yg); Ithaca (Joh).

*Z. ornata* Lw. Colden, May (MCV); Ithaca, Aug (Joh).

*Z. varia* Staeg. Wells, Jl (Yg).

## FAMILY SCIARIDAE

## EUGNORISTE Coquillett

*E. occidentalis* Coq. Manlius; Ithaca (Joh).

## TRICHOSIA Winnertz

*T. hebes* Lw. Ithaca, Jl (Joh).

## ZYGONEURA Meigen

*Z. flavicoxa* Joh. Ithaca, Jl (Joh).

## SCIARA Meigen

(Including *Neosciara* Pettey)

*S. actiosa* Joh. Niagara Falls, Oct; Erie Co, May, Je (MCV); Freeville, Ithaca, May, Jl (Joh).

*S. agraria* Felt. Albany (CnJr).

*S. caldaria* Lint. Ithaca (Joh).

*S. coprophila* Lint. Erie Co, Ap-Sep (MCV); Ithaca, Aug (Joh); Albany, Mar; LI: Glen Cove, Je.

*S. diluta* Joh. Freeville; Ithaca, Jl (Joh).

*S. dolens* Joh. Tompkins Co, Je (Joh).

*S. dux* Joh. Ithaca, Je (Joh).

*S. fatigans* Joh. Ithaca (Joh).

*S. femorata* Say. Niagara Falls, Je (Jn); N. Evans, May (MCV).

*S. fuliginosa* Fitch. "NY" (Fitch); Erie Co, May, Je (MCV).

*S. fumida* Joh. Ithaca, Aug (Joh).

*S. habilis* Joh. Hamburg, May, Boston, Sep (MCV); Ithaca, Je (Joh).

*S. hastata* Joh. Tompkins Co, Je, Jl (Joh).

- S. impatiens* Joh. Ithaca (Joh).  
*S. inconstans* Fitch. Albany, Je (Fitch).  
*S. johannseni* End. (*nigricans* Joh.). Hamburg, Oct (MCV); Ithaca, May, Aug (Joh).  
*S. jucunda* Joh. Niagara Falls, May (Joh); Ithaca, Je-Aug.  
*S. lurida* Wlk. Trenton Falls (Wlk).  
*S. mali* Fitch. "NY" (Fitch).  
*S. mellea* Joh. Ithaca, Je (Joh).  
*S. mutua* Joh. N. Evans, May (Joh); Ithaca, Je.  
*S. nacta* Joh. Ithaca (Joh).  
*S. ocellaris* Cmtk. Lancaster, Buffalo (Joh).  
*S. ochrolabis* Lw. Ithaca, Je, Aug (Joh).  
*S. pauciseta* Felt. Ithaca, Jl-Oct (Joh); McLean, Ap, *Claas* (Joh).  
*S. parilis* Joh. Ithaca (Joh).  
*S. prolifica* Felt. Erie Co, May-Sep (MCV); Ithaca, Ap, Aug (Joh).  
*S. sciophila* Lw. Ithaca, Jl-Oct (Joh).  
*S. silvestrii* Kieff. "NY" (Kieff).  
*S. similans* Joh. LI: Cold Sp. Harb., *Metz* (Joh).  
*S. trivialis* Joh. Ithaca, Aug (Joh); Bronx Pk.  
*S. varians* Joh. Ithaca (Joh).  
*S. vicina* Joh. Ithaca, Jl (Joh).  
*S. vulgaris* Fitch. Karner, Oct.

## FAMILY BIBIONIDAE

## PLECIA Weidemann

- P. heteroptera* Say. Saranac L., Sep, *Ds* (Leon); Hamburg, Oct, Buffalo, Oct, *MCV* (Jn); Ithaca, Oct (Joh); McLean, Sep, *Sib* (Joh); Hebron, Sep, *Ds* (Leon); DeBruce, Sep, *Ds*; Oliverrea, Sep (Leon); West Pt., *Nic*; Ft. Montgomery, *Schott*.

## BIBIO Geoffroy

- B. abbreviatus* Lw. W. Nyack, *Ol*s (Beq).  
*B. albipennis* Say. Adirondacks, Je (Joh); Erie Co, *MCV*; Ithaca, common, May, Aug; New Baltimore; Suffern (AM); Dunwoodie (AM); **SI** (Beq); **LI**: Huntington, Rockaway Beach, Wading R., Yaphank, *Ds* (Jn), May.  
*B. basalis* Lw. Mt. Marcy, 5344 ft. (Beq).  
*B. femoratus* Wied. Mt. Whiteface, summit, Jl, *Ds* (Leon); Axton, Je; Newport, May; Hamburg, May, *MCV* (Jn); Tompkins Co, May (Jn); White Plains, *Bno* (Beq); **LI**: Rockaway Beach, *Ds* (Leon); Orient, May, *Lath*; Wyandanch, May.  
*B. fraternus* Lw. Tompkins Co (HHS).  
*B. fumipennis* Wlk. Newport, May, *Yg* (NYS).  
*B. longipes* Lw. Niagara Falls, Oct (MCV); Greene Co, *How* (Ald); McLean, Aug, *Sib* (Joh).  
*B. xanthopus* Wied. Axton, Je (M&H); Poughkeepsie, May, *Yg* (NYS); Ithaca, May, Oct (Joh); **SI**, May, *Ds* (Leon); **LI**: Rockaway Beach, May, *Ds* (CnJr).

## DILOPHUS Meigen

- D. breviceps* Lw. L. Tear, 4600 ft. (Beq); Erie Co, Sep, Oct, *MCV* (Jn).  
*D. spinipes* Say (*dimidiatus* Lw.). "NY" (Lw).  
*D. serraticollis* Wlk. Axton, Je (Joh); McLean, Sep, *Sib* (Joh).

## FAMILY SCATOPSIDAE

## SCATOPSE Geoffroy

- S. notata* L. Ithaca, May (Joh).  
*S. pygmaea* Lw. Erie Co, Mar, JI, *MCV* (Jn); Ithaca, Mar (Joh).

## RHEGMOCLEMA Enderlein

- R. atrata* Say. Buffalo, Mar, Oct, *MCV* (Jn); Saratoga Sps., Ap; Albany, Sep;  
 Ithaca, JI (Joh).

## SWAMMERDAMELLA Enderlein

- S. brevicornis* Meig. Ithaca, May (Joh).

## FAMILY SIMULIIDAE

## PROSIMULIUM Roubaud

- P. hirtipes* Fries. L. Tear (Beq); Axton, Je; Erie Co, May (*MCV*); Ithaca, May,  
 Je (Joh); McLean, JI, *Sib* (Joh); Albany, JI (NYS); Hillburn, *Schott*  
 (Beq); W. Nyack (Beq); **SI** (Beq).

## EUSIMULIUM Roubaud

- E. bracteatum* Coq. S. Wales (*MCV*); Ithaca, Oct (Joh).  
*E. johannseni* Hart. Axton, Je (Joh).

## SIMULIUM Latreille

- S. parnassum* Mall. Plattsburg, Aug, *Dy* (Dy&Snn).  
*S. pictipes* Hagen. Ausable R., Aug; Erie Co, May-Aug (*MCV*); Ithaca, Je-Aug  
 (Joh).  
*S. piscidium* Rly. Mumford (Rly).  
*S. venustum* Say. L. Tear, 4600 ft. (Beq); Adirondacks, Je-Aug; Colden, May  
 (*MCV*); Ithaca, Je (Joh); McLean, JI (Joh); Wilmuth.  
*S. vittatum* Zett. Axton, Je (Joh); Niagara Falls (Mall); Hamburg, May (*MCV*);  
 Ithaca, Oct; E. Schodack, May.

## FAMILY BLEPHAROCERIDAE

## BLEPHAROCERA Macquart

- B. tenuipes* Wlk. Adirondacks, Je; Watertown; Colden, JI (*MCV*); Ithaca, Je-JI  
 (Joh).

## FAMILY XYLOPHAGIDAE

Compiled by M. D. LEONARD

## SUBFAMILY XYLOPHAGINAE

## XYLOPHAGUS Meigen

- X. fasciatus** Wlk. (*abdominalis* Lw.). Albany, May 15, *Yg*.  
**X. lugens** Lw. Niagara Falls, May (MCV); Syracuse, *Blkm* (Hine); Ithaca, Ap; McLean, May; Slide Mt., Je 3, *Leon*; Albany, May 2, reared from under dead bark (Felt); Nassau, Ap 19, reared from under pine log (Felt); Mosholu, May 4, *Ds*; **SI**, Ap, *Ds*; **LI**, Ap 28; Queens, May, *Ols*; Flatbush; Bellport; Cypress Hills.  
**X. reflectens** Wlk. (*rufipes* Lw., *persequus* Walk.). Mt. Seward, Je 22, 4500 ft., *M&H*; Axton, *M&H* (Joh); L. Tear, J1 29, 4300-4600 ft., *Beq*; Ithaca, W. Danby, May; W. Winfield, Je 7, *Leon*; Slide Mt., Catskills, Je 3, *Leon*; Big Ind. Val., May-Je, *Pears*.

## SUBFAMILY ARTHROCERATINAE

## SOLVA Walker

(*Xylomyia* Rondani)

- S. aterrima** John. Rochester Jct., J1 9 (*Leon*); N. Evans, J1 4 (MCV); Irving, J1 22 (MCV); Ithaca, J1 12, *JLFrank*.  
**S. pallipes** Lw. Ithaca, May-Aug; Karner, Je; Albany, Je, *Yg*; Clinton Hgts., Je 13, *Yg*; Kingston, Je 9; Poughkeepsie, Aug; Big Ind. Val., Je, *Pears*; Shandakin, Je 3, *Leon*; White Plains, Je 4; **SI**, Je, *Ds*; **LI**: Flatbush, Lott Wood, Je-J1, *Zab*; Cold Sp. Harb., J1 25; Flushing, May 25, *Beq*; Sea Cliff, *Bks*.  
**S. tenthredinoides** Wulp. Niagara Falls, Je 9 (MCV); S. Wales, Je 22 (MCV); Ithaca, *Joh*; Poughkeepsie, Je 3, *Yg*; NYC, Je 12; **SI**: Richmond Hill, J1 3.

## ARTHROCERAS Williston

- A. leptis** O.S. Mt. Marcy, J1 31, 1913, *Felt*; L. Tear, J1 20, *Beq*.

## GLUTOPS Burgess

- G. singularis** Burgess. Ithaca, Ap 14, 1922, male, McLean, 1924, female (Joh).

## FAMILY COENOMYIIDAE

Compiled by M. D. LEONARD

## COENOMYIA Latreille

- C. ferruginea** Scop. Olcott, Je 5, *Dt*; Southfields (Beq); Protection, Je 8 (MCV); Ithaca, Je 22, *SHemerson*; Pike; Labrador L., Je 9, *Leon*; Albany, May; West Pt., Je, *Ds*; Ft. Montgomery, May, *Ds*; Ramapo, May-Je, *Ds*; Suffern; Pearl R., May 31, *EEWatson*; **LI**: Wading R., Je, *Ds*.

## ARTHROPEAS Loew

- A. americana** Lw. L. Placid, Aug 7; Brant L. (Coq).

## FAMILY STRATIOMYIIDAE

## ALLOGNOSTA Latreille

- A. brevicornis** Jn. L. Tear, 4600 ft., *Beq* (Jn).  
**A. fuscitarsis** Say. Fulton Co; Trenton Falls; Erie Co, May-Jl (MCV); Little Valley (MCV); Ithaca and vic., May-Aug (Hine); Albany; Kiamesha (Me1); White Plains (Beq).  
**A. obscuriventris** Lw. Ithaca and vic., Je-Jl (Hine); Catskills, Je (AM); Poughkeepsie, Je.  
**A. similis** Lw. "NY" (Lw); Catskills, Je (AM).

## ACTINA Meigen

(*Hemiberis* Enderlein, *Allactina* Curran)

- A. viridis** Say. Axton (Joh); Elba, Je (MCV); Oswego; Niagara Falls, May-Je (Hine); Erie Co (MCV); Little Valley, May-Je (MCV); Ithaca and vic.; Fulton Co; Catskills, Je (AM); Karner (NYS); Pine I. (Beq).

## SCOLIOPELTA Williston

- S. luteipes** Will. Upper Ausable L., Jl (Beq).

## HERMETIA Latreille

- H. illucens** L. **SI**, *Bs* (Beq).

## PTECTICUS Loew

- P. sackeni** Will. Essex Co, Jl (NYS); W. Nyack, Jl, *Bs*.  
**P. trivittatus** Say. Ithaca (Hine); **SI**: Richmond, Aug (*Bs*); New Brighton, Je (*Bs*); **LI**: Sheepshead Bay, Aug (NYS); Flatbush, *Schott* (Beq); Sands Pt., Sep (*Bs*).

## CHRYSOCHROMA Williston

- C. nigricornis** Lw. Norton's Landing, Cayuga L. (OS).

## PEDICELLA Bigot

(*Macrosargus* Bigot)

- P. clavis** Will. Ithaca, Ap-Je (Joh); Brooklyn, Je (Beq).

## SARGUS Fabricius (not Klein)

(*Geosargus* Bezzi)

- S. cuprarius** L. Old Forge, Je; Niagara Falls, Je (Joh); Erie Co, Ap-Sep (MCV); Ithaca (Joh); Catskills, Je (AM); **SI**: Arlington, Aug, *Bs*; Richmond, *Bs*; Arrochar, Jl, *Bs*; **LI**: Sands Pt., Jl, *Bs*; Flushing (Beq); Central Pk. (Beq); Aqueduct, *Eng* (Beq); Queens, *Schott* (Beq); Glendale, Je, *Bs*.



- S. decorus** Say. L. Tear, J1 (Beq); Fulton Co; Manlius; Niagara Falls, Je (Jn); Erie Co, May-Aug (MCV); Ithaca (Hine); Trenton Falls; Catskills, Je (AM); Albany, May (NYS); Kiamesha (Mel); **SI**: Scrub Oak, Aug (Bs); **LI**: Greenport, May; Sands Pt., Sep (Bs); Cold Sp. Harb., Aug (Bs).
- S. elegans** Lw. Erie Co, Je-Aug (MCV); Ithaca (Hine); **LI**: Sands Pt., J1, Bs (Beq).
- S. viridis** Say. Fulton Co; Oswego, May; Niagara Falls, Je (Jn); Erie Co, Ap-Je (MCV); Ithaca (Hine); Albany (NYS); **LI**: Rockaway Beach (Jn); Huntington, *Schott* (Beq); Flatbush, May, *Zab* (AM).

## MICROCHRYSA Loew

- M. polita** L. Oswego, Je (Jn); Erie Co (MCV); Ithaca, Je (Hine); Albany (NYS); Poughkeepsie; **LI**: Brooklyn (Beq); Sands Pt., J1 (Bs); Flatbush, J1 (AM).

## STRATIOMYIA Geoffroy

- S. apicula** Lw. Lewiston, Little Valley, May-Je (MCV).
- S. badia** Wlk. Old Forge; Woodhull L., Aug (Jn); Olcott, Aug (MCV); Erie Co, May-Je (MCV).
- S. discalis** Lw. Fulton Co; Erie Co, Je (MCV); Ithaca, J1 (Hine); Karner, May; Poughkeepsie (NYS); **SI**: (NYS); Moravian Cemetery, May (Bs); **LI**: Astoria (AM); Brooklyn, *Eng* (Beq); Maspeth (Beq); E. New York, *Schott* (Beq); Rockaway Beach (Jn).
- S. lativentris** Lw. Buffalo (Jn); E. Aurora, Je (MCV); Ithaca, Je (Hine); Woodhull L., Aug.
- S. meigenii** Wied. Erie Co, May-Je, Lewiston, Je (MCV); Ithaca (Hine); Albany, Aug (NYS); Woodworth's, J1; Forest Lawn, J1, *Zab* (AM).
- S. norma** Wied. Erie Co, J1, Aug (MCV); Ithaca (Hine); **LI**: Astoria (AM), as *normula*.
- S. normula** Lw. Long L., Aug (NYS); Niagara Falls; Buffalo, Je (Jn); E. Aurora, Je (MCV); Ithaca (Joh).
- S. quaternaria** Lw. Ithaca, May (Hine).

## ODONTOMYIA Meigen

- O. cincta** Oliv. Johnstown (NYS); Manitou Beach, Je, *Zab*; Buffalo, Je (Jn); Ithaca (Joh); **SI**: Watchogue, Je (Bs); Stony Pt., Je (AM); **LI**: Flatbush, Je, *Zab*; Long Beach (Beq); Maspeth, Rosedale, Flushing, *Schott* (Beq).
- O. flavicornis** Oliv. "NY" (Lw).
- O. hydroleonoides** Jn. McLean, J1 (Joh).
- O. interrupta** Oliv. Fulton Co (NYS); Springville, Je (MCV); Ithaca, Je (Hine); Trenton Falls; Albany; Poughkeepsie, May-J1; White Plains, *Bno* (Beq); **SI**: Moravian Cemetery, and Watchogue, May (Bs); **LI**: Wading R., May, *Ds* (Jn); Long Beach, J1 (Bs).
- O. microstoma** Lw. **LI**: Jamaica, Long Beach, *Eng* (Beq); Kings Pk., J1, *Bell* (Ds or Bs).
- O. pallipes** Wlk. "NY". Not recognized.
- O. pilimanus** Lw. E. Aurora, J1, Colden, Aug (MCV).

- O. pubescens* Day. Oswego, May (Jn); Lewiston, May, Je (MCV); Erie Co; McLean; Albany (NYS); Fulton Co; **SI** (Beq); **LI**: Long Beach (Beq); Wading R., May, *Ds* (Jn).
- O. vertebrata* Say. Buffalo, Je (MCV); Norton's Landing, Cayuga L. (OS); Albany, Je (NYS); **LI**; Maspeth (Beq).
- O. virgo* Wied. Erie Co, Je-Jl (MCV); Pike, Je (NYS); Canandaigua L., Jl; Ithaca, Je (Hine); Trenton Falls; Catskills, Je (AM); Poughkeepsie, Jl; Ft. Montgomery, *Schott* (Beq); White Plains, Je (Beq); Stony Pt., Je (AM); **LI**: Maspeth (Beq).

**EUPARYPHUS** Gerstaecker

- E. bellus* Lw. Johnstown, *Alex*; Hamburg, May (Jn); Albany, May (NYS).
- E. brevicornis* Lw. Niagara Falls, Je (Jn); N. Evans, Jl (MCV); Rock Glen, Jl (MCV); Ithaca (Joh).
- E. greylockensis* Jn. Ithaca (Joh).
- E. stigmatalis* Lw. Ithaca, Jl (NYS).
- E. tetraspilus* Lw. Erie Co, Je-Jl (MCV); Ithaca, Je (Joh).

**NEMOTELUS** Geoffroy

- N. canadensis* Lw. **LI**: Sands Pt., Je (Bs).
- N. carbonarius* Lw. Erie Co, Je-Jl (MCV); Ithaca, Je; Johnstown, May (NYS).
- N. melanderi* Bks. "NY."
- N. unicolor* Lw. Ithaca, May, Je (Hine).

**OXYCERA** Meigen

- O. approximata* Mall. Ithaca, Je (Beq-Bs).
- O. maculata* Oliv. Niagara Falls, Je (Jn); Erie Co, Je-Jl (MCV); Ithaca (Hine); Johnstown.

**BERKSHIRIA** Johnson

(*Johnsonomyia* Malloch 1915, not Felt 1908)

- B. aldrichi* Mall. Ithaca, Je (Joh).

**PACHYGASTER** Meigen

- P. pulcher* Lw. Albany, Je (NYS); West Pt. (Mall).

**NEOPACHYGASTER** Austen

(*Vep̃po* Latreille?)

- N. maculicornis* Hine. Ithaca, Jl, *MacG* (Mall).

**ZABRACHIA** Coquillett

- Z. polita* Coq. Saranac Inn, Aug (Coq).

## FAMILY TABANIDAE

## BUPLEX Austen

*(Pangonia* auct. not Latreille)**B. pigra** O.S. "NY" (OS).**B. rasa** Lw. Speculator, Aug (NYS); Old Forge, J1; Ithaca, J1-Aug; McLean, J1.**B. tranquilla** O.S. N. Elba, J1; Old Forge, J1 (Hine-NYS); Long L., *Ds*; Woodhull L., Aug, *EJLove* (Johns); McLean, J1; Catskills (AM); Ramapo, Je 12, *Ds*.

## GONIOPS Aldrich

**G. chrysocoma** O. S. Trenton Falls; Batavia, J1; Little Valley (MCV); Ithaca, Aug (Joh); Covert (CU).

## CHRYSOPS Meigen

**C. brimleyi** Hine. **SI**.**C. brunneus** Hine. N. Fair Haven, J1; Lakeside Pk., Aug; Rochester, J1.**C. callidus** O. S. Clyde, J1 21, *Bish* (Leon); Naples, J1 31, *Bish* (Leon); Erie Co; Gowanda, May-J1, *MCV*; Ithaca (Joh); Kenwood, Albany, J1 5 (Leon); Voorheesville, Je 19 (Leon); Poughkeepsie, J1 1 (Leon); Franklin, Je 20 (Leon); West Pt., *Ds*; Mosholu; Van Cort. Pk. (Osb); Pine I., *Ds*; Stony Pt., *Ds*; **SI**; Richmond, Je 16 (Leon); **LI**: Cold Sp. Harb., Aug (Hine).**C. carbonarius** Wlk. (*fugax* O. S.). Axton (Joh); Chapel Pond, Essex Co, Je 28, *Bish* (Leon); Keene Val., Je-J1 (Leon); Old Forge, Je 2 (Leon); Big Moose, J1 24 (Leon); Saranac Inn, Je (Leon); Chazy L., Je 25 (Leon); Mt. McIntyre, May 30 (Leon); Hamilton Co, *Ds*; Thompson, May 25 (Leon); Erie Co, May-Je, *MCV*; Ithaca and vic. (Hine); Corinth, Je 2, *Yg* (Leon); Easton, May 25 (Leon); Rensselaer, May 30 (Leon); Albany, Je 7 (Leon); Karner, May 29 (Leon); Coeymans, Je 15 (Leon); Thacher Pk., Albany Co, May 2 (Leon); Cropseyville, May 23 (Leon); Big Ind. Val., May-Je, *Pears*; Olivera, *Ds*; Slide Mt., Catskills, Je 3 (Leon); West Pt., *Ds*; Greenwood L. (Hine); Mosholu, Je (Hine).**C. celer** O. S. Old Forge, J1; L. Placid, Je 27; Honeoye Falls, Je (Leon); Elba, Je (MCV); Niagara Falls, May-Je (Jn); Erie Co, May-Je (MCV); Ithaca, Je; Cooperstown, Je; Valley Falls, Je 19; Nassau, Je (NYS); Voorheesville, Je 19, *Leon*; West Pt., Je, *Ds*; Pine I., Je 19, *Ds*; Katonah, Je, *Bt*; Ramapo, Je, *Ds*; Mosholu, Je 11, *Ds*; NYC (Osb); **LI**, Je (Jn).**C. cuclux** Whitn. Peru, Je; Axton, Je; Laborador L., Je; Wells, Je 30, *Yg*; Johnstown, May 31 (Leon); Genesee Co, Je 25, *Ds*; Hamburg, May-Je; Ithaca, Je (Hine); McLean, May; Albany, Je 4, *Bish*; Voorheesville, Je 19, *Leon*; Thacher Pk., Albany Co, May 27, *Leon*; Karner, May 9 (Leon); Rensselaer, May 30, *Leon*; Hudson R. Val., Poughkeepsie, Je 3 (Leon); West Pt., Je 18, *Ds*; Mosholu, Je (Hine).**C. cursus** Ald. (*cursim* Whitn.). "NY".**C. delicatulus** O. S. Big Moose, J1 3 (NYS); N. Fair Haven, J1; **LI**: Wading R., Je (Jn).**C. dimmocki** Hine. Grand I., Erie Co, Je (Jn); **SI**, Je 20, J1 12, *Ds*; **LI**: Southampton, J1 (NYS).**C. excitans** Wlk. Axton, Je-J1 (Joh); Old Forge, Je, *Yg*; Keene Val., J1 31; Saranac Inn, J1 21; Speculator, J1 17, *Yg*; Long L., *Ds*; Big Moose, J1; Woodhull L., *EJLove*; Elba, *MCV*; Erie Co; Albany, J1 (NYS).

- C. geminatus** Wied. Speculator, Jl 17, *Yg*; Wells, Jl 9 and 10, *Yg*; N. Fair Haven, Jl; Erie Co, Jl-Aug (MCV); Otto, Jl; Little Valley, Jl (MCV); Ithaca, Je-Jl (Joh); McLean, Jl; Ringwood, Jl; New Salem Swamp, Albany Co, Jl 7, *Bish*; Watervliet Reservoir, Albany, Aug 2, *Leon*; Voorheesville, Jl 7 and 15, *Leon*; Karner, Jl 14, *Leon*; Catskills, Jl; Mt. Merino, Jl (Jn); Huguenot, Jl, *Zab*; White Plains; Ramapo, *Ds*; Van Cort. Pk., Jl, *Zab*; **LI**: Cold Sp. Harb., Jl 19.
- C. flavidus** Wied. **SI**, Sep 2, *Ds* (Leon); **LI**: Riverhead, Je-Aug, *Ds* (Jn); Rockaway; Orient Pt., Jl 12, *Lath* (Leon).
- C. fuliginosus** Wied. (*plangens* Wied.). **SI**: Watchogue, Jl 4 (*Ds*); **LI**: Sands Pt., Je 15 (*Ds*); Flatbush, Je, *Zab* (AM); Sea Cliff (Hine).
- C. frigidus** O. S. McLean, Jl-Aug (Hine); Cooperstown, Jl.
- C. lateralis** Wied. Adirondacks, Jl (Hine); Speculator, Je, Aug 6, *Yg*; Old Forge, Jl; Big Moose, Jl, *Yg* (Leon); Saranac Inn, Jl 17 (Leon); Upper Ausable L., Jl 28 (Leon); Keene Val., Jl (Lint); Dug Mt., Aug, *Yg*; Wells, Jl 10 and 27, abundant, *Yg* (Leon); Cooperstown, Jl; Haines Falls, Aug; Elm L., Aug, *Yg* (Leon); Stony Clove, Catskills, Jl, *Ds*; Big Ind. Val., Je-Aug, *Pears*; Huguenot, Jl, *Zab*; **LI**, Je.
- C. indus** O. S. Essex Co (NYS); Keene Val., Jl (Leon); Theresa, Jl; Honeoye Falls, Je (Leon); Genesee Co, Je 26, *Ds*; Erie Co, Je-Aug, *MCV*; Ithaca and vic. (Hine); Trenton Falls, Je; McLean, Jl; Hoversville, Schoharie Co, Je 20 (Leon); Franklinton; Je 20, *Leon*; Rensselaer, May 30, *Leon*; Albany, Je (Leon); New Salem Swamp, Albany Co, Je 1, *Bish* (Leon); Voorheesville, Je 19, Jl 15, *Leon*; Hudson R. valley; Poughkeepsie, Je (Leon); Pine L., Je.
- C. lugens** Wied. "NY."
- C. lugens** var. **morosus** O. S. "NY."
- C. mitis** O. S. Axton, Je (Joh); Trenton Falls, Je 4, *Leon*; Cooperstown, Je; Ft. Montgomery, May 31, *Ds*.
- C. moechus** O. S. Lancaster, Je, *MCV*; Broadalbin, Je 29, *Yg*; Albany, Je 25 (Leon); White Plains, Jl.
- C. moerens** Wlk. N. Fair Haven, Jl; Lakeside Pk., Aug; Olcott, Jl; Freeville, Jl (Hine); Jamestown, Jl 5 (Leon); Canandaigua L., Aug 21, *Bish* (Leon).
- C. montanus** O. S. Dug Mt., Aug, *Yg*; Old Forge, Jl 17; Saranac Inn, Jl 22; N. Fair Haven, Jl; Catskills (O. S.); **SI**: Clove Val., Je 27; **LI**: Riverhead, Je-Aug, *Ds*; Long Beach.
- C. niger** Macq. Throughout the State, May-Aug. Adirondacks; Old Forge, Jl 11; Keene Val., Je 29; Big Moose, Jl 2, *Yg*; Elm L., Aug 7, *Yg*; Speculator, Je, *Yg*; Saranac Inn, Jl; Buffalo; Erie Co; Portage, Je-Jl, *MCV* (Jn); Castile, Brad (Joh); Ithaca and vic. (Joh); Woodhull L., *EJLove*; White L., Jl, *Zab*; Corinth, May 26, *Yg*; Hoversville, Je 20 (Leon); Franklinton, Je 20 (Leon); Cropseyville, Coeymans, Aug 18, Sep 15 (NYS); Mudhole Pond, Albany Co (?), Je, *Leon* (NYS); Voorheesville, Je 19 (Leon); Karner, Je 18; Rensselaer, Je; N. Chatham, Je 6; Hudson R. Val.; Big Ind. Val., Je-Jl, *Pears*; Yonkers; Poughkeepsie, Je 8; Pine I., Je 19, *Ds*; West Pt., Je 18, *Ds*; Huguenot, Jl, *Zab*; **SI**: Richmond, Je (Leon); **LI**, Je.
- C. nigribimbo** Whit. **LI**, Je.
- C. obsoletus** Wied. (*morosus* O.S.). White Plains, Jl (Kröber).
- C. wiedemanni** Kr. Paradox L., Jl 13, *Ds*; Big Moose, Aug 13, *Yg*; Speculator, Aug 9, *Yg*; Potsdam; Wells, Jl 23, *Yg*; Clyde, Jl 21, *Bish*; N. Fair Haven, Jl; Erie Co, Je-Aug, *MCV*; Niagara Falls (Jn); Otto; Ithaca, Je (Hine);

- McLean, J1; Cooperstown, J1; Karner, J1 14, *Leon*; Voorheesville, J1 15, *Leon*; Watervliet Reservoir, Albany, Aug 2, *Leon*; Poughkeepsie, Je 30; Ramapo, *Ds*; White L., *Zab*; West Pt., Sep 2, *Ds*; Mosholu, J1; NYC (Osb); **SI**: Clove Val., J1; **LI**: Cold Sp. Harb., J1 (Hine).
- C. parvulus** Daecke. Callicoon, J1, *Ds* (Lg).
- C. pudicus** O. S. **LI**, Je.
- C. sackeni** Hine. Pine I., Je 21, *Ds*; Mosholu, J1.
- C. sordidus** O. S. Adirondacks, Je (Joh); Saranac Jct., Je, *Yg* (NYS); Castile, *Brad* (Joh).
- C. striatus** O. S. Saranac Inn, J1 (NYS); Old Forge, J1 11; Fulton Co; L. Pleasant, J1 (Leon); Piseco L., Aug 31 (Leon); Sodus, J1 20, *Lint* (Leon); Clyde, J1 21, *Bish*; N. Fair Haven, J1; E. Aurora, Little Valley, Je-Aug, *MCV*; Ithaca (Joh); Canandaigua L., J1 31, *Bish*; Voorheesville, J1 15, (Leon); **LI** (Jn).
- C. univittatus** Macq. Naples, Canandaigua L., J1 31, *Bish*; Colden, J1 (MCV); Ithaca, Je-J1 (Hine); Albany, Je (Leon); Voorheesville, Je 19, J1 15 (Leon); Huguenot, J1, *Zab*; Ft. Montgomery, Je (MCV); Mosholu; **SI**: Richmond, Je, *Leon*; **LI**: Je-Aug (Jn); Yaphank, Je.
- C. vittatus** Wied. Throughout the State, Je-Aug. Big Moose, J1 7, *Yg*; Keene Val., J1; L. Pleasant, Aug; Piseco L., Aug 31; Elm L., Aug 7, *Yg*; Hague, Aug, *Leon*; Speculator, Aug 5, *Yg*; Wells, J1, *Yg*; Fulton Co; Sodus, Je, *Lint*; Clyde, J1 21, *Bish*; Erie Co; Otto; Little Valley, Je-Aug, *MCV*; Ithaca and vic. (Hine); Watervliet Reservoir, Aug 2, *Leon*; Albany, Je-Aug; Karner, J1, *Leon*; Voorheesville, Je 19, J1 15, *Leon*; Ballston L., Aug 26, *Leon*; Big Ind. Val., J1, *Pears*; Poughkeepsie, Je; Van Cort. Pk., J1, *Zab*; **LI**: Lawrence, J1 27; Orient, Aug (NYS).

## TABANUS Linnaeus

- T. acteon** O. S. Pine I., Sep 8, 1910 (Hine).
- T. affinis** Kby. Saranac Inn, Je (NYS); Potsdam, Je, *Yg* (Hine-NYS).
- T. americanus** Forster. "NY".
- T. astutus** O. S. Big Moose, Keene Val., J1 (Hine-NYS); Old Forge; McLean, Je, *Sib* (Joh).
- T. atratus** Fab. Abundant throughout the State. Adirondacks (Felt); Erie Co, Je-Aug, *MCV*; Sardinia, Aug (Bish); Castile, *Brad* (Joh); Ithaca (Hine); Utica, J1, *RWWells* (Bish); Albany, May (NYS, Sep); Nyack, J1, *Zab*; Hudson R. valley (NYS); West Pt., Je 8, *Ds*; NYC, Bronx Pk., *Ds*; **SI**, common, *Ds*; Richmond; Ft. Wadsworth; Watchogue, *Burns*; **LI**: Flatlands, Aug, *Zab*; Rosedale, *Schott*; Wading R., *Ds*; Long Pond, *Ds*; Massepequa; Long Beach, *Burns*; Brooklyn, *Eng*; Flatbush.
- T. atratus** var. *nantukensis* Hine. **LI**: Long Beach (Beq).
- T. bicolor** Wied. E. Aurora, J1, *MCV*; Ithaca, Aug (Hine); McLean, J1; White Plains, J1; **SI**: Watchogue, Je 29, 1919, *Burns*; **LI**: Wading R.; Montauk, Aug 24, 1917, *Ds*.
- T. carolinensis** Macq. Rochester Jct., J1, *Leon*; Ramapo, Je 12, *Ds* (Drury); West Pt., Je 4, *Ds*.
- T. cinctus** Fab. Karner, Je (Yg); **SI**, one male, Je 25, *Ds*; **LI**: Yaphank, *Eng*; Kings Pk., *Bell*; Babylon (BM).
- T. coffeatus** Macq. Adirondacks, J1 (Felt); Rhinebeck, J1; Poughkeepsie. (NYS); **SI**: Clove Val., *Ds*; Watchogue, *Bell*; **LI**: Wading R., *Eng*.



- T. costalis** Wied. Very abundant throughout the State. Erie Co., Je-Aug, *MCV*; Dunkirk (Hine); Gowanda (*MCV*); Ithaca, Jl-Aug (Hine); Utica, Jl, *RWWells* (Bish); W. Hebron, Aug, *Lg*; Hudson R. valley (NYS); Nyack, *Zab*; Ft. Montgomery, Jl 16, *Ds*; Ramapo, Jl, *Ds* (Drury); Carmel, Aug; **SI**: Richmond; Watchogue; Ft. Wadsworth, *Burns*; **LI**: Jamaica, *Osb*; Long Beach; Flatbush; Coney I.; Flatlands, *Zab*; Aug, *HMWells* (*Zab*).
- T. cymatophorus** O. S. Canandaigua L., Jl (NYS).
- T. daeckei** Hine. **SI**.
- T. epistates** O. S. Adirondacks, Jl (NYS, Jn); Mt. Whiteface, *Ds* (Jn); Long L., *Ds*; Rochester Jct., Jl, *Leon*; **SI**: Huguenot Pk., *Ds*; **LI**: vic. of Brooklyn (Eng).
- T. exul** O. S. (*sulcifrons* Macq?). New Windsor, Jl, *Edw*.
- T. giganteus** DeG. Ithaca, Aug; Huguenot, *Burns*; **SI**: Annadale, etc., *Ds*; **LI**: vic. Brooklyn, *Eng*, *Sf*.
- T. hinei** Jn. **SI**: *Ds*; Richmond; Watchogue, *Burns*; **LI**: Long Pond, Wading R., *Ds*; Southampton, Jl (Hine-NYS).
- T. illotus** O. S. E. Aurora, Je; Rochester (*MCV*); Franklinton, Je, *Leon* (Hine-NYS).
- T. lasiophthalmus** Macq. Abundant throughout the State; Adirondacks, Je (Joh); Saranac Jct. (NYS); Erie Co., May-Je, *MCV*; W. Winfield (*Leon*); Castile, *Brad* (Joh); Ithaca, May-Je (Hine); Burlington Flats, *EEWehr* (Bishopp); Rensselaerville; Big Ind. Val., Je, *Pears*; Port Chester; Katonah, Je, *Bt*; White Plains, Jl (*MB*); Bedford Hills, Je (*Bish*); Orange Co., abundant, *Wells*; Pine L., *Ds*; NYC, Bronx Pk.; **SI**, common: Tottenville; Richmond, etc., *Ds*; Watchogue, *Burns*; **LI**: Wading R.; Gardiners L., *Ds*; Astoria; Montauk; Wyandanch, *Schott*; Jamaica, *Nic*.
- T. lineola** Fab. Abundant throughout the State; Adirondacks (Felt); Potsdam, Jl, *Yg* (Hine-NYS); Lewiston, Jl; Erie Co., Je-Jl *MCV*; Otto (Hine); Ithaca; Nyack, Jl, *Zab*(?); Hudson R. valley (NYS); Big Ind. Val., Aug, *Pears*; Bedford Hills, Je, *WHSandies* (Bish); Huguenot, Jl, *Zab*; **SI**, common, *Ds*, *Burns*; **LI**: Prospect Pk., Brooklyn; Flatbush, *Eng*; Jamaica; Yaphank; Aqueduct, *Ds*; Orient; Cold Sp. Harb., Jl; Long Beach, *Beq*; Sands Pt., *Burns*; Wading R., *Schott*.
- T. longus** O. S. Saranac Inn, Jl (NYS).
- T. microcephalus** O. S. Adirondacks (Felt); Saranac Inn, Jl (Hine-NYS); Old Forge, Jl; Wells, Jl (Hine-NYS); Colden, Jl-Aug (*MCV*); McLean (Hine); South L., Catskills, Aug 11, *Ds*; Big Ind. Val., Jl, *Pears* (Hine); Callicoon, Jl 27, *Ds*?
- T. minusculus** Hine. Oswego (Hine).
- T. nigrescens** Palisot de Beauvais. Rochester, *MCV*; Nyack, Jl, *Zab* (Beq); ?Huguenot, Jl, *Zab* (AM); **SI**: a female from Watchogue Aug 4, a male from there Jl 21, 1920, *Burns*; a female found dead on Richmond Turnpike near Silver L., Aug 10, *Ds*.
- T. nigrovittatus** Macq. Gloversville, Aug (Hine-NYS); Ramapo, Jl 2, *Ds*; Larchmont, Aug; **SI**: common on the beaches, *Ds*; Watchogue, *Burns*; **LI**: Rosedale, *Schott*; Sheephead, Aug (Hine-NYS); Orient; Maspeth, *Ds*; Rockaway Beach, *Osb*; Long Beach; Gardiners L., *Beq*; Sands Pt., *Burns*; Cold Sp. Harb., Jl (Hine-AM).
- T. nigrovittatus** var. *conterminus* Wlk. **SI**: Watchogue, *Bs*; **LI**: Rosedale, *Schott* (Beq); Rockaway Beach, *Ols* (Beq); Orient (Beq).
- T. nivosus** O.S. Hamilton Co (Ds); Saranac Inn, Jl (NYS); Big Moose, Jl, *Yg* (Hine-NYS); Rochester Jct., Je, *Leon*; West Pt., Je 13, *Ds*.

- T. nudus** McD. Saranac Inn, Je (Hine-NYS).  
**T. ohioensis** Hine. Mt. Marcy, Je; Rochester Jct., Je, *Leon*; E. Aurora, J1, *MCV*; Ithaca, J1; McLean; **LI**: Hempstead, J1.  
**T. orion** O.S. NY (O.S.); Buffalo, *MCV*; Ithaca, J1; **SI**: Clove Val., one female, two males on railroad train, Richmond, Aug 13, 1920, *Ds*; Oakwood, J1 24, 1920, *Burns*; **LI**: vic. Brooklyn (Eng); Hempstead, J1.  
**T. pumilus** Macq. Abundant throughout the State; Hamburg, J1 (*MCV*); Ithaca, J1 (Hine); near Albany, Je (NYS); Huguenot, J1, *Zab*; **SI**, common, *Ds*, *Burns*, *Beq*; **LI**: Rosedale, *Schott*; Pennequid Barrens, *Beq*; Cold Sp. Harb., Sep.  
**T. recedens** Wlk. NY; NYC, *Ds*; **SI**, *Ds*; Watchogue, *Burns*.  
**T. reinwardtii** Wied. Adirondacks (Felt); Fulton Co, *Ald*; Ithaca, Je-Aug (Hine); Hudson R. Val. (NYS); Utica, J1, *RWWells* (Hine); **SI**: one male, J1 24, *Ds*; Huguenot, J1, *Zab* (Hine).  
**T. rhombicus** O.S. Wells, J1 (NYS).  
**T. septentrionalis** Lw. Old Forge, Aug (NYS); Keene Val. Je (Hine-NYS).  
**T. sparus** Whitn. **SI**; **LI**.  
**T. stygius** Say. Buffalo, Je, *MCV*; Olcott, Je; Ithaca and vic. (Joh); **LI**: Yaphank, Aug 16, 1921, *Eng*.  
**T. sulcifrons** Macq. Coeymans (Lint); Palenville, *Ds*; **SI**: Watchogue, *Ds*; Richmond, *Miriam Campbell*; Arlington, *Bs*.  
**T. superjumentarius** Whitn. S. Wales, J1; Colden, Aug, *MCI*; **SI**: Richmond, J1 13, 1919, *Bs*.  
**T. trimaculata** Palisot de Beauvais. **SI**; **LI**.  
**T. thoracicus** Hine. Oswego, Aug (Hine).  
**T. trepidus** McD. Keene Val., Speculator, J1 (Hine-NYS).  
**T. trispilus** Wied. Adirondacks, J1 (NYS); Long L., *Ds*; Irving, Je (*MCV*); Boston, Aug (*MCV*); Ithaca, Aug (Hine); Utica, J1, *RWWells* (Hine); Croton, J1, *Ds*; **SI**: Huguenot, J1, *Zab*; **LI**: Queens, *Schott*; Sea Cliff (Hine).  
**T. trispilus** var. *sodalis* Will. Ithaca, Je (Jn); L. Pleasant, Elm L., J1-Aug, *Yg* (Hine-NYS).  
**T. vivax** O.S. Wells, Je (Hine-NYS); Ithaca, Je-Aug (Joh).  
**T. zonalis** Kby. Adirondacks, Je-J1 (Joh,Yg).

#### MERYCOMYIA Hine

- M. whitneyi** Jn. "NY" (Jn); **SI**: Clove Val., *CLPollard*.

#### FAMILY RHAGIONIDAE

##### (Leptidae)

Compiled by M. D. LEONARD

##### DIALYSIS Walker

##### (Triptotricha Loew)

- D. elongata** Say. E. Aurora, J1 (*MCV*); Olean, Aug 5 (*MCV*); White Plains, Aug 7, *Bno*; **SI**: Ft. Wadsworth, Richmond, Arrochar, J1, *Bs*; **LI**: Maspeth, Aug, *Ols*; Flatbush, J1-Aug, *Zab*.

**RHAGIO** Fabricius(*Leptis* Fabricius)

- R. gracilis** Jn. Dug Mt., Aug, *Yg*; Upper Ausable L., *Jl, Beq*; Wells, Newport, Speculator, *Jl-Aug, Yg*; Colden, Aug (MCV); Olean, Aug (MCV); Dayton, Je (MCV); Rock City, *Jl*; Trenton Falls (OS).
- R. mystaceus** Macq. Keeseville, Je; Peru, Je, *Cy&Fbs*; Axton, *M&H* (Joh); N. Elba, *Jl, Wat*; Keene Val., Je; Saranac Inn, Je; Speculator, Je, *Yg*; L. Clear, Je, *Yg*; Newport, May; W. Winfield, Je, *Leon*; Chapel Pond, Je, *Bish*; Wells, May-Je; Mt. McIntyre, 4000 ft., Je, *Leon*; Johnstown, May; Loon L., Je, *Cy*; Woodworth's L., *Alex*; Hamburg, May-Je; Lancaster, Je, Holland, May (MCV); Rock City, Mix Cr. Val., Je; Crosby, May, *Cy*; Ithaca, McLean, Danby, W. Danby, May-Jl (div.); Spencer, Je, *And*; Trenton Falls, *Jl, Yg, Leon*; Corinth, Je, *Yg*; Albany, Je; Thacher Pk., Helderberg Mts., May, *Leon*; Cropseyville Je; Big Ind. Val., May-Je; Olivera, Je, *Ds*; Greene Co., Je, 2500 ft., *How*; Poughkeepsie, May, *Yg*; West Pt., Je, *Ds*; Wappingers Falls, *Jl, Leon*; Nepperhan, Je, *Bks*; Ramapo, May; Ft. Edward, Je; **LI**: Oyster Bay, Je; Jamaica, May, *Ols*; Yaphank, May, *Pollard*; Flatbush, May-Je; Flushing, May, *Bcq*; Central Pk.; Sands Pt.; Cold Sp. Harb., Je, *Ds*; Orient Pt., Je, *Lath*.
- R. plumbeus** Say. Newport, Ilion, May, *Yg*; Woodville, L. Ontario, Je, *House*; Honeoye Falls, May, *Leon*; Hamburg, May (MCV); E. Aurora, May, *Wild*; Ithaca, May, *Leon*; Taughannock Falls, May; Corinth, May, *Yg*; Albany, May, *Yg*; Thacher Pk., Helderberg Mts., May, Rensselaer, May, *Leon*; Florida, Je, *FrostSW*; Durlandville, May, *FrostSW*; **LI**: Richmond Hill; Sea Cliff, May, *Bks*.
- R. punctipennis** Say. Mt. Kisco, Je; Speculator, Je, *Yg*; Gloversville, Sep, *Alex*; Kiamesha; Tompkins Co; Sterling Forest, May; Poughkeepsie, May, *Yg*; Nyack, *Zab*; White Plains, Je, *Beq*; Van Cort. Pk., Je, *Bno*; **SI**: Richmond, May-Je, *Bs, Leon*; New Dorp; **LI**: Richmond Hill, *Jl*; Sea Cliff, Je, *Bks*; Flatbush, May-Je, *Zab*; Sands Pt., Je, *Bs*; Woodhaven, *Jl*.
- R. terminalis** Lw. "NY", type; Taughannock Falls, *Jl, Leon*; Valcour, *Jl*.
- R. vertebratus** Say (*scapularis* Lw., *hirta* Lw.). Upper Ausable L., *Jl, Beq*; pond at foot of Mt. Redfield, *Jl, Beq*; Onteora Mt., *Jl, How*; Newport, Wells, *Jl, Yg*; Adirondack Lodge, *Jl, Leon*; Augur Flats, *Jl, Yg*; Hamburg, E. Aurora, Colden, Protection, Gowanda, Niagara Falls, Je-Jl (MCV); Little Valley, Je (MCV); McLean, *Jl, Leon*; Ithaca, Je-Jl, *SmRC*; Catskills, Je-Aug; Stony Clove, *Jl*; **SI**, Je, *Ds*.
- R. incisus** Lw. Binghamton, *Dietz*.

**CHRYSOPIUS** Macquart

- C. basilaris** Say. Hague, Aug, *Leon*; Batavia, *Jl, Kngt*; Spring Lake, Cayuga Co., *Jl*; Ithaca, *Jl*; Poughkeepsie, *Jl, Yg*; Mosholu.
- C. fasciatus** Say. Karner, *Jl*; Katonah, Je, *Bt*; W. Nyack, *Jl, Beq*; Van Cort. Pk., *Jl, Zab*; West Farms, *Angus*; **SI**: Watchogue, *Jl, Bs*; **LI**: Maspeth, *Jl, Ds*.
- C. modestus** Lw. Niagara Falls, Aug (OS); Buffalo, *Jl-Aug* (MCV); Goat I.
- C. ornatus** Say. Sacandaga Pk., Fulton Co, Je, *Alex*; Honeoye Falls, Je, *Leon*; Genesee Co, *Ds*; Niagara Falls, Je-Jl (MCV); Boston, *Jl* (MCV); Conesus L., Je, *Ds*; Ithaca and vic., Je-Jl; Albany, *Jl*; New Salem Swamp, Albany

Co, J1, *Bish*; Bethlehem, Je, *Lint*; Helderberg Mts., J1; Stony Clove, J1; Poughkeepsie, Je; West Pt.; Katonah, Je, *Bt*; Tarrytown, Mosholu, Je-J1, *Bno&Wat*; Ramapo, Je; Nyack, Je, *Ds*; **SI**: Richmond, Je, *Ds*; **LI**: Richmond Hill, J1; Flatbush, Je, *Eng*; Jamaica; Sea Cliff, Je, *Bks*.

- C. proximus** Wlk. (*propinquus* Wlk., *simillimus* Wlk.). Speculator, Je, *Yg*; Keene, Je, *Leon*; Adirondack Lodge, Je, *Leon*; Lawson's L., Je, *Bish*; Kirkland, Je, *Leon*; Clayville, Je, *Leon*; Ithaca, Je, *SmRC*; Corinth, Je, *Yg*; Salem, Je; Karner, Je, *Yg*; Voorheesville, May, *Bish* (reared from sphagnum); Stony Clove, J1; Poughkeepsie, Je, *Yg*; Port Chester, Je, *Haimbach*; Ramapo, Je; Suffern (AM); Mosholu, Van Cort. Pk., May, *Bno*; **SI**: Richmond, Watchogue, New Dorp, Je, *Bs*; **LI**: Flatbush, Je, *Zab*; Sea Cliff, *Bks*.

- C. quadratus** Say. Axton, Je, *M&H*; Wilmington, Aug; New Russia, Aug, *Bdy*; L. Placid, Aug; Saranac Inn, Je; Severance, J1, *Bks*; Keene, Je, *Leon*; Chazy L., J1; Wells, Speculator, J1, *Yg*; Hague, Aug, *Leon*; Upper Ausable L., J1, *Beq*; Brant L.; Sport I., Sacandaga R., Je, *Alex*; Lake Bluff, Sodus, J1; Honeoye Falls, Aug, *Leon*; Niagara Falls, Je (Bezzi); Batavia, Je-Aug (Kngt); Grand I., Sep (MCV); Canandaigua L., J1; Rock City, J1, *Kngt*; Westfield, Je; Spring Lake, J1; Spencer L., Je; Ithaca and vic., Je-Sep; Clifton Sps., Aug; Karner, J1, *Leon*; Marlborough, 2500 ft., *How*; Catskills, Je-Aug; Pine L., J1, *SWFrost*; **SI**: New Dorp, *Bs*; Watchogue, J1, *Bs,Ds*; **LI**: Lott Wood; Flatbush, Je, Pennequid Barrens, Coram, J1, *Beq*; Sands Pt., J1, *Bs*.

- C. rotundipennis** Lw. S. Wales, J1 (MCV).

- C. thoracicus** Fab. Honeoye Falls, Je, *Leon*; Rochester, Je (Ald); Batavia, Je, *Kngt*; Portage, Je, *Ds*; Pike; Colden, Je (MCV); Westfield, Je; Ithaca and vic., May-Je, *Leon*; Interlaken, Je; Albany, Je, *Yg*; Voorheesville; Castleton, Je, *Lint*; Nassau, Je; Bethlehem, May, Je, *Ald*; Clinton Hgts; N. Chatham, Je; Cropseyville, Je; Hudson, Je; Poughkeepsie, May, *Yg*; Ramapo, May, Je, *Ds*; Katonah, Je, *Bt*; Suffern; Nyack; Mosholu (AM); NYC?, Je, *Angus*; West Farms, *Angus*; **SI**: Richmond, New Dorp, Tottenville, May-Je, *Bs*; **LI**: Jamaica, Je, *Ds*.

#### ATHERIX Meigen

- A. variegata** Wlk. Rochester Jct., Je, *Leon*; Pike, J1; Ithaca, May-Je, *Leon, SmRC*; Riders Mills, May, *Bish* (all males, resting on needles of a pine tree; common).

#### SYMPHROMYIA Frauenfeld

- S. cinerea** Jn. Ithaca, Je, *Leon*.

- S. hirta** Johns. Niagara Falls, Je (MCV); Ithaca; Cooperstown, *SmRC*; **LI**: Richmond, Je, *Ds*.

#### BOLBOMYIA Loew

- B. nana** Lw. Colden, N. Evans, May (MCV); Danby, May, *Snn*.

#### FAMILY CYRTIDAE

##### PTERODONTIA Gray

- P. flavipes** Gray. **LI**: Montauk Beach, *Schott* (Beq).

## OGCODES Latreille

(Oncodes auct.)

- O. costatus* Lw. Niagara Falls, Aug (MCV); Honeoye Falls, J1 (Leon); Ithaca, Je (Joh).  
*O. dispar* Macq. McLean, May, Sep (Joh).  
*O. incultus* O.S. Potsdam; Grand I., Je (MCV); Keene, Je (MCV).

## OPSEBIUS Costa

- O. pterodontinus* O.S. Ithaca, Buys (Joh).  
*O. sulphuripes* Lw. Sharon Sps., OS (Lw).

## ACROCERA Meigen

- A. bimaculata* Lw. McLean, Aug, Sib (Joh); West Pt., Je, Ds (Beq).  
*A. bulla* Westw. Ithaca, Je, Hd (Joh); Big Ind. Val., Eng (Beq).  
*A. fasciata* Wied. Poughkeepsie, May; McLean, Je, Sib (Joh).  
*A. liturata* Will. (n. var.?). Juanita I., L. George, J1 26, Bish (Leon).  
*A. nigrina* Westw. Newcomb, J1 6 (Joh); McLean, Aug, Sib (Joh).  
*A. subfasciata* Westw. "NY".

## FAMILY BOMBYLIIDAE

## ANTHRAX Scöpoli

(Spogostylum Macquart)

- A. albofasciata* Macq. Rochester (MCV); **LI**: Pennequid Barrens (Beq).  
*A. anale* Say. Ithaca, Aug (Hine); Karner, J1-Aug; Albany, Oct; Croton-on-Hudson, J1, Ds (Jn); Unionport, Sep (AM); W. Nyack (Bs); Mosholu (AM); Van Cort. Pk. (Bs); **SI**, Aug-Sep (Bs); **LI**: Aqueduct, Sep, Ds (Jn); Sands Pt., Cold Sp. Harb., J1-Aug (Bs); Yaphank, Aug-Sep, Ds (Jn); Riverhead, Aug (NYS).  
*A. argyropyga* Weid. Inwood, Schott (Beq).  
*A. limatula* Say. Essex Co, J1.  
*A. oedipus* Fab. Essex Co; Little Valley, J1 (MCV); Niagara Falls, Je (Jn); Ithaca (Joh); Karner (NYS); Ft. Montgomery, Schott (Beq); Nyack, J1 (Beq); **SI**, J1 (Bs); **LI**: Cold Sp. Harb., Aug (Bs); Sands Pt., J1 (Bs); Half Way Hollow Hills, J1, Ds (Beq); Yaphank, May (CnJr-ANSP).  
*A. pauper* Lw. Ithaca, Je (Hine); **SI**, Je-J1 (Beq, Bs); **LI**: Sands Pt., J1, Sep (Bs); Orient (Beq); Gardiners I. (Beq).  
*A. simson* Fab. Coeymans (Lint); Mt. Ivy, Rockland Co, Aug (Ds); New Baltimore, J1 (AM); Nyack, J1 (AM); **SI**, Aug (Ds, Bs); **LI**: Setauket, Eng (Beq); Yaphank, Aug, Ds (Beq); Gardiners I. (Beq).  
*A. varium* Fab. Reared from nest of *Bomboides podilarius* at Ithaca, Ap (Snn).

## EXOPROSOPA Macquart

- E. capucina* Fab. Minerva, Aug.  
*E. decora* Lw. Ithaca, J1 (Hine); Van Cort. Pk. (Bs); **LI**: Cold Sp. Harb., Aug (Bs).



- E. fasciata** Macq. Ithaca, Aug (Hine, Jn); Niverville; W. Nyack (Beq); **SI**, Aug (Bs); **LI**: Aqueduct, Sep, *Ds* (Jn); Jamaica, Flushing, Canarsie, Long Beach, Rockaway Beach (Beq).  
**E. fascipennis** Say. Newport, Aug (NYS); Irving, J1 (MCV); Ithaca, Aug (Hine); McLean, J1; Albany; Normanskill (CnJr-NYS); Clinton Hgts. (NYS); Nyack, J1 (AM); Mosholu (AM); Van Cort. Pk. (Bs); Allerton Ave., NYC (Ang); **SI**, Je-Aug (Bs); **LI**: Corona (AM); Manhattan Beach, Yaphank, Greenport, Gardiners I. (Beq); Wading R., Aug, *Ds* (Jn).

### VILLA Lioy

(*Anthrax* auct. not Scopoli)

- V. alternata** Say. Keene Val. (CnJr-NYS); L. Placid, Aug; Saranac, J1; Long L., Aug; Severance, Aug, *CSBanks*; L. Pleasant, J1; Erie Co, Aug-Sep (MCV); McLean, Aug, *Sib* (Joh); Karner, Aug-Sep (NYS); **SI** (Beq); **LI**: Cold Sp. Harb., Wyandanch, Orient (Beq); Wading R., Aug, *Ds* (Jn).  
**V. ceyx** Lw. Karner, Aug (NYS); **LI**: Yaphank, J1, *Ds* (Jn); Pennequid Barrens, Wading R., Wyandanch (Beq).  
**V. fulviana** Say. Saranac Inn, J1-Aug (CnJr-NYS); Keene Val., Aug; L. Pleasant, J1; Wilmington, Aug; Grand I., Sep (Jn); McLean, Sep, *Sib* (Joh); Oliverea (Beq).  
**V. fulvohirta** Wied. Mosholu (AM); **SI**, Aug-Sep (Bs); **LI**: Cold Sp. Harb., Aug (Bs).  
**V. hypomelas** Macq. Woodhull L., Aug (Jn); Keene Val., Long L., Wilmington, Aug (CnJr); Wells, J1, *Yg* (CnJr); Silver Bay, Aug (CnJr); **SI**, Sep (Bs).  
**V. lateralis** Say. Keene Val., J1-Aug; L. Pleasant, J1-Aug; Wells, J1; Saranac Inn, Aug; Erie Co, Je-Aug (MCV); Tompkins Co, including Ithaca, J1 (Hine); Haines Falls, J1; Beaverkill, Aug (CnJr); E. Jewett, Aug, *Ds* (Jn); Albany, Dec(?) (NYS); Voorheesville, Aug; Kinderhook, Sep (CnJr); Poughkeepsie, J1; Ft. Montgomery, *Schott* (Beq); **SI**, J1-Sep (Bs); **LI**: Smithtown, Aug, *Ds* (Jn); Calverton, Yaphank, Amagansett, J1, Sep, *Ds* (CnJr); Cold Sp. Harb., Huntington, Orient, Gardiners I. (Beq); Half Way Hollow Hills, Yaphank, J1 (CnJr-ANSP).  
**V. lateralis** var. *gracilis* Macq. L. Pleasant (Jn).  
**V. lateralis** var. *nigra* Cress. Adirondack L., Saranac Inn, J1-Aug, Wells, J1 (CnJr-NYS); Beaverkill, Aug (CnJr); Karner, J1.  
**V. molitor** Lw. **LI**: Huntington, Sep (Coq).  
**V. morio** L. Adirondack L., J1, Saranac Inn, Je (CnJr); Rochester, Je (MCV); Niagara Falls (Jn); Lewiston, May (MCV); Corinth, May (CnJr); Karner, May-Je; Albany, May; Ft. Montgomery, *Schott* (Beq); Southfields, *Schott* (Beq).  
**V. nigricauda** Lw. Beaverkill, Aug (CnJr-ANSP).  
**V. shawii** Johns. **LI**: Amagansett, Sep, *Ds* (CnJr).  
**V. sinuosa** Wied. Gowanda, Je (MCV); Karner, Je; Albany, Je-J1; Poughkeepsie, J1; Ft. Montgomery, *Schott* (Beq); Stony Pt., Je, *Ds* (Jn); Pine I., Je, *Ds* (Jn); **SI**, Je-Aug (Bs); **LI**: Kings Pk. (Beq); Huntington (Beq); Coney I., Rockaway (AM); Sands Pt., Je-J1 (Bs); Pennequid Barrens (Beq); Yaphank, May (CnJr-ANSP).  
**V. tegminipennis** Say. Paradox L., J1, *Ds* (Jn); Pine I., Sep, *Ds* (Jn); **LI**: Sands Pt., Wading R. (Bs); Huntington, Fire I., Sep (Jn); Promised Land, Sep, *Ds* (Jn); Gardiners I. (Beq).  
**V. webberi** Johns. Ft. Montgomery, Southfields, *Schott* (Beq).

## BOMBYLIUS Linnaeus

- B. fraudulentus** Johns. White Plains (Beq); **SI**: Ft. Wadsworth, May (Bs); **LI**: Cold Sp. Harb., Pennequid Barrens (Beq); Wading R., Je, *Ds* (Jn).
- B. fulvibasis** Macq. (*atriceps* Lw). Little Valley, Je (MCV); Tompkins Co (OS); Bethlehem Center, Je; Poughkeepsie, J1; Mosholu (AM); **SI**: Watchogue, *Bs* (Beq); **LI**: Central Pk. (Beq); Farmingdale, *Bs* (Beq); Wading R., May, *Ds* (Jn).
- B. incanus** Johns. **LI**: Sands Pt., Je, *Bs*, *Ds* (Jn); Cold Sp. Harb., Je (Ds); Yaphank, Je (CnJr-ANSP).
- B. major** L. Pike; Erie Co, Ap-May (MCV); Ithaca, May (Hine); Karner, Ap-Aug, Albany (NYS); Ramapo, Mar 24, *Ds* (Jn); Mosholu (AM); **SI**, Mar 5-May (Bs); **LI**: Cold Sp. Harb., May (AM); Wyandanch, Yaphank, May, *Ds* (Jn).
- B. mexicanus** Wied. **SI**: Watchogue, Je (Bs); **LI**: Wading R., *Schott* (Beq); Yaphank, May (CnJr-ANSP).
- B. pulchellus** Lw. Nyack, Hillburn, *Schott* (Beq); Mosholu (Bs); **SI**, May (Ds); **LI**: Huntington, Amityville, *Schott* (Beq).
- B. pygmaeus** Fab. Hamburg, Colden, May (MCV); Ithaca, May, *Sib* (Joh); Ft. Montgomery, *Schott* (Beq); Ramapo Mts. (AM); Hillburn, May (Bs); **SI**: Watchogue, May (Bs); **LI**: Wyandanch, May, *Ds* (Jn); Yaphank, Melville (Beq).
- B. subvarius** Johns. Ft. Montgomery, *Schott* (Beq); Mosholu, May (Ds).
- B. validus** Lw. "NY" (OS).
- B. varius** Fab. Nyack, J1, *Zab* (AM); **SI**, Je, *Ds* (Jn); **LI**: Central Pk. (Beq); Farmingdale (Bs).

## ANASTOECHUS Osten Sacken

- A. barbatus** O.S. (*nitidulus* auct. not Fab.). **LI**: Amagansett, Sep (CnJr-ANSP); Wading R., Sep, *Bs*.

## SYSTOECHUS Loew

- S. candidulus** Lw. **LI**: Yaphank, *Ols*, Coram, Wading R., Pennequid Barrens (Beq).
- S. vulgaris** Lw. Ramapo Mts. (AM).

## PHTHIRIA Meigen

- P. sulphurea** Lw. **LI**: Long Beach, Aug (Beq).

## LEPIDOPHORA Westwood

- L. aegeriformis** Westw. Minnewaska, Ulster Co, Aug (Beq); **SI**: Watchogue, Sep 21, *Ds* (Jn).

## SPARNOPOLIUS Loew

- S. fulvus** Wied. Erie Co, Aug-Sep (MCV); Tompkins Co, including Ithaca, J1-Aug; Callicoon (AM); Phoenicia, Aug (MCV); White Plains (Beq); Pine I., Sep (AM); Mosholu (AM); **SI**, Aug-Sep (Bs); **LI**: Sands Pt. (Bs); Central Pk., Cold Sp. Harb., Flushing, Huntington, Little Neck, Southold, Sep (Beq).

## SYSTROPUS Wiedemann

- S. macer** Lw. Erie Co, Aug-Sep (MCV); Ithaca, Aug (Joh); White Plains (Beq); Nyack, Aug (AM); Ramapo Mts. (AM); Stony Pt., Sep (Bs); **SI**, Aug (Bs); **LI**: Astoria (AM); Brookhaven, Sep, *Schott* (Beq); Riverhead, Aug, *Ds* (Jn).

## GERON Meigen

- G. calvus** Lw. Erie Co, Jl-Aug (MCV); Geneseo; Albany, Jl.

FAMILY THEREVIDAE<sup>99</sup>

## TABUDA Walker

- T. fulvipes** Wlk. **LI**: Baiting Hollow, May (NYS).

## PSILOCEPHALA Zetterstedt

- P. amplifrons** Cole (*latifrons* Cole). W. Danby, May, type.  
**P. flavipennis** Cole. **LI**: Sands Pt. (Bs); Wyandanch, *Schott* (Beq); Riverhead, Jl-Aug (NYS).  
**P. frontalis** Cole. Keene Val., Aug; Gloversville, Sep; Oswego, Jl; Rochester Jct., Jl, type, *Leon* (Cole); Lake Bluff, Jl; Corinth, Je, *Yg* (NYS); Karner, Je, *Yg* (NYS); Hague, Aug (Leon-NYS); Ft. Montgomery, *Schott* (Beq); Poughkeepsie, Je, *Yg* (NYS); **SI**; **LI**: Cold Sp. Harb.; Fishers I., Aug; Montauk, Aug, *Ds* (Felt).  
**P. grandis** Jn. Ramapo Mts., *Ds* (Beq).  
**P. haemorrhoidalis** Macq. Essex Co, Gloversville, Honeoye Falls, Rochester Jct., Je (*Leon*); Oswego; Lake Bluff; Erie Co, Je-Aug (MCV); Batavia, Jl; Castile (Brad); Ithaca, May-Sep; Poughkeepsie; New Rochelle, Aug (AM); Ft. Montgomery (*Schott*); **SI** (*Ds*); **LI**: Flatbush, Sep; Sea Cliff, Bergen I., Jl; Wyandanch (*Schott*); Sands Pt. (Bs); Jamaica, *Bs* (Beq).  
**P. melampodia** Lw. Keene Val., Je-Jl; Ithaca, May; Albany, May.  
**P. morata** Coq. **LI**: Gardiners I., Je, *Ds* (Felt-Ds).  
**P. munda** Lw. Axton, Je, Aug; Big Moose, L. Placid, Aug; N. Elba, Jl; Middleport, Jl (MCV); Rock City, Je, *Ds* (Felt).  
**P. variegata** Lw. Oswego, Je-Jl; Pulaski, Je, *Ds* (Felt).

## EPOMYIA Cole

- E. pictipennis** Wied. Oswego, Jl; Sanford, *MCV* (Cole); Ft. Montgomery, *Schott* (Beq); **LI**: Long Beach (Beq); Orient, Jl, *Zab* (Cole).  
**E. rufiventris** Lw. Essex Co, Jl; **LI**: Sands Pt. (Bs); Long Beach; Riverhead, Jl (NYS).  
**E. scutellaris** Lw. Mosholu, Je; Van Cort. Pk., Je-Jl.

## THEREVA Latreille

- T. candidata** Lw. Essex Co, Aug (JonesFM); Speculator, Je (NYS); Saranac Inn, Jl; N. Elba, Jl; Rochester Jct. (*Leon*); Lancaster, May-Je (MCV); Scotia, Je; Karner, Jl (Cole-NYS); Corinth, Je; Albany, May-Jl.

<sup>99</sup> The manuscript for this family has been checked by Dr. F. R. Cole.

- T. duplicis* Coq. Axton, Je (Cole).  
*T. flavicincta* Lw. Adirondacks, Je; Speculator, *Ang* (NYS); Protection, Je, Little Valley, Je (MCV); Wanakena, Aug (Cole).  
*T. frontalis* Say. Chazy, Je; Upper Ausable L. (Beq); foot of Mt. Redfield, Essex Co (Beq); N. Elba, JI; Wells, JI; Speculator, Aug; Genesee Co (Ds); Lancaster, Je; Gowanda, Je; Little Valley, Je (MCV); Yates Co, *Ds* (Beq); Ithaca, JI; Slaterville, Je; Albany, May.  
*T. senex* Wlk. Ithaca, May.  
*T. strigipes* Lw. Axton, Je.

## FAMILY SCENOPINIDAE

## SCENOPINUS Latreille

- S. fenestralis* L. Essex Co, JI; Ausable Forks, Jan (NYS); Middleport, JI (MCV); Buffalo, Je-JI (Lint); Salamanca, Little Valley, JI (MCV); Ithaca (Joh); Amsterdam; Albany, Oct; Mosholu (AM); **SI** (Beq); **LI**: Flatbush, Je, *Zab*; Gardiners I., JI (Beq).  
*S. glabrifrons* Meig. "NY", Ap (Jn); **LI**: Flatbush, *Schott* (Beq).

## FAMILY MYDAIDAE

## MYDAS Fabricius

- M. carbonifer* O.S. Ithaca, Je 30, *Philip Miller* (Joh); Norton's Landing, Cayuga L., JI, *Comstock* (OS).  
*M. clavatus* Drury. Near Buffalo (MCV); Bronx Pk., *Schott* (Beq); **SI**: Wards Pt., JI 10 (Ds); Arlington, JI 24 (Ds); Watchogue (Ds); **LI**: Flatbush, Aug, *Zab*.

## FAMILY ASILIDAE

## SUBFAMILY LEPTOGASTERINAE

## LEPTOGASTER Meigen

- L. annulatus* Say. "NY" (Back).  
*L. badius* Lw. Essex Co, JI; Sacandaga Pk., Je; Niagara Falls, Je (Jn); Hamburg, JI.  
*L. flavillaceus* Lw. **LI**: Wyandanch, *Schott* (Beq).  
*L. flavipes* Lw. Common and widely distributed. Ft. Montgomery (Beq); **SI**, JI, *Ds* (Beq); **LI**: Aqueduct, JI, Riverhead, Aug, *Ds* (Beq); Flatbush, JI, *Zab*; Cold Sp. Harb., JI (AM); Central Pk., Wading R. (Beq).  
*L. incisuralis* Lw. Mosholu (AM); **LI**: Wyandanch, Je (Jn).  
*L. loewi* Bks. Ithaca (Bks).  
*L. pictipes* Lw. **LI**: Aug (Back); Wading R., Je, *Ds* (Jn); Yaphank, JI, *Ols*, *Ds* (Beq); Pennequid Barrens (Beq).  
*L. testaceus* Lw. Erie Co, *MCV*; Tompkins Co, JI (Hine); Albany, Je; Pine I., Je, *Ds* (Beq); **LI**: Gardiners I. (Beq).

## SUBFAMILY DASYPOGONINAE

## LAPHYSTIA Loew

- L. sexfasciata* Say. "NY" (Back).

## CERATURGUS Wiedemann

- C. aurulentus* Fab. Van Cort. Pk. (Beq).  
*C. cruciatus* Say. Tompkins Co, J1, *Di* (Joh); Bethlehem; Albany; Poughkeepsie, Je; White Plains, Westchester (Beq); Mosholu, Sep, *Ds* (Beq); **LI**: North Beach, *Schott* (Beq).  
*C. similis* Jn. Portage, Je, *Ds* (Beq).

## ECHTHODOPA Loew

- E. formosa* Lw. **LI**: Gardiners I. (Beq).

## DIOCTRIA Meigen

- D. albius* Wlk. Upper Ausable L. (Beq); Adirondacks, J1; Erie Co, Je-Aug (*MCV*); Otto, J1; Little Valley, Je; Rock City, Je (*Ds*); Tompkins Co, Je-J1 (Hine); Ft. Montgomery, *Schott* (Beq); Olivera, J1, *Ds* (Beq); **LI**: Half Way Hollow Hills, J1 (*Ds*).  
*D. baumhaueri* Meig. **LI**: Sands Pt., *Bs* (Beq).  
*D. brevis* Bks. **LI**: Sea Cliff (Bks); Pennequid Barrens (Beq).  
*D. sackeni* Will. Indian Pass, Essex Co, *Not* (Beq); Olivera, Je, *Ds* (Beq).

## CYRTOPOGON Loew

- C. bimacula* Wlk. Mt. Marcy (Beq).  
*C. falso* Wlk. (*chrysopogon* Lw.). Adirondacks, Je (Back, Joh); Karner, May; **LI**: Central Pk., Kings Pk. (Beq).  
*C. lutatius* Wlk. Hamburg, Je (*MCV*); Pike (Back); Cayuga L.; **LI**: Pennequid Barrens (Beq).  
*C. lyratus* O.S. Adirondacks, Aug; Catskill, J1 (Back).  
*C. marginalis* Lw. Karner, May; Catskills (Back); **LI**: Yaphank, *Schott* (Beq); Wyandanch, *Schott* (Beq); Pennequid Barrens (Beq).

## LASIOPOGON Loew

- L. terricola* Jn. **SI** (Beq).

## HOLCOCEPHALA Jaenicke

- H. abdominalis* Say. Potsdam, J1 (Hine); Erie Co, J1-Aug (*MCV*); Westfield, J1; Ithaca, J1-Sep (Joh); Trenton Falls, J1; **SI**, Aug, *Ds* (Beq).  
*H. calva* Lw. Ithaca (Hine); Poughkeepsie, J1; **SI**, J1, *Ds* (Beq); **LI**: Flatbush, J1, *Zab*.

## HOLOPOGON Loew

- H. guttula* Wied. Oswego, J1 (Jn); Erie Co, Je-J1 (*MCV*); Ft. Montgomery, *Schott* (Beq); Nyack, Je, *Ds* (Jn); **LI**: Yaphank, May, *Ds* (Jn); Central Pk. (Beq).



## NEOPOGON Bezzi

(Stichopogon auct. not Loew)

- N. argenteus** Say. **SI**, south shore, *Ds* (Beq); **LI**: Amagansett, Sep, *Ds* (Beq); Gardiners I. (Beq); Fire I., Sep, *Ds* (Beq); Rockaway (AM); Sands Pt., *Back* (Beq); Long Beach (Beq).
- N. trifasciatus** Say. Rochester (MCV); Callicoon, *Jl, Lg*; **SI**: Tottenville, *Leon, Ds*; Kreischerville, *Jl*; **LI**: Sheepshead Bay, *Jl*; Wading R., Aug-Sep, *Ds*; Fire I., Sep, *Ds* (Jn); Rockaway, Aug, *Ols*; Cold Sp. Harb. (Beq); Pennekid Barrens (Beq); Yaphank, *Jl*, Orient, *Jl*, Selden, Riverhead, Aug, *Ds*; Manhattan Beach, *Jl, Southwick*.

## HETEROPOGON Loew

- H. macerinus** Wlk. (*gibbus* Lw.). Trenton Falls (Lw); Ft. Montgomery, *Schott* (Beq); **LI**: Wading R., *Ds*, Huntington, *Schott* (Beq).

## DEROMYIA Phillippi

- D. discolor** Lw. Pittsford (Lint); Olivera, *Jl, Ds* (Beq); Mosholu (AM); Van Cort. Pk., Aug, *Ds* (Beq); **SI**, Aug-Sep, *Ds* (Beq); **LI**: Brooklyn (Beq); Yaphank, Aug, *Ds* (Beq); Calverton, *Jl, Ds* (Beq); Manhattan Beach (Beq); Fishers I., Aug, *Zab*; Baldwin, Sep; Flatbush, Aug (AM).
- D. umbrina** Lw. Keene Val., *Jl*; Wells; Erie Co, Aug-Sep (MCV); Clifton Sps. (Hine); Pike; Ithaca, *Jl-Aug* (Joh); McLean, *Jl, Sib* (Joh); Albany, Je; E. Jewett, Aug, *Ds* (Beq); DeBruce, Sep, *Ds* (Beq); Dutchess Co (Beq); Carmel, Aug (Beq-AM); **LI**: Gardiners I. (Beq); Montauk, Aug, *Ds* (Beq).
- D. winthemi** Wied. (*misellus* Lw.). Larchmont, Aug, *Beq* (AM); W. Nyack (Beq); Woodbury Falls, Sep (AM); Carmel, Aug, *Beq* (AM); **LI**: Southold, Sep, *Ds* (Jn); Cold Sp. Harb., Oakdale, Wyandanch, Gardiners I. (Beq); Montauk, Aug, *Ds* (Jn).

## TARACTICUS Loew

- T. octopunctatus** Say. Oswego, *Jl* (Jn); Mosholu (AM); **SI**, Aug, *Ds* (Beq); **LI**: Parkville (AM); Flatbush, Je-Sep, *Zab*.

## NICOCLES Jaennicke

- N. pictus** Lw. Gowanda, Je (MCV); **LI**: Selden, Aug, *Ds*.

## SUBFAMILY LAPHRIINAE

## CEROTAINIA Schiner

- C. macrocera** Say. E. Aurora, *Jl* (MCV).

## ATOMOSIA Macquart

- A. puella** Wied. Erie Co, Je-Jl (MCV); Otto, *Jl* (Hine); Ithaca, *Jl* (Hine); Albany, Aug; White Plains (Beq); **SI**: Clove Val., *Jl, Ds* (Beq); **LI**: Flatbush, *Jl, Zab* (AM).

## POGONOSOMA Rondani

*P. dorsatum* Say var. *melanopterum* Wied. **LI**: Montauk Beach, *Schott* (Beq).

## DASYLECHIA Williston

*D. atrox* Will. Ithaca, Aug (Hine).

## NUSA Walker

*N. fulvicauda* Say. Elma, Aug (MCV).

## LAMPRIA Macquart

*L. bicolor* Wied. Niagara Falls, Je (Jn); Tompkins Co.

## DASYLLIS Loew

*D. affinis* Macq. Otto, *Comst* (Hine); **LI**: Wyandanch, *Schott* (Beq).

*D. champlainii* Walton. **LI**: Baiting Hollow, May; Riverhead, Aug, *Ds* (Beq).

*D. cinerea* Back. Karner, Je (Back).

*D. flavicollis* Say. Mt. Whiteface, on trail, Jl, *Ds* (Jn); Adirondacks (Joh); Sodus Bay, Je; Niagara Falls; Erie Co, May-Jl (MCV); Conesus L., Portage, Je (Ds); Pike; Rock City, Je (Ds); Ithaca (Hine); McLean, May, Jl; Syracuse, *Blkm* (Hine); Albany, Nassau, Je; Slide Mt., Oliverea, Je (Ds); E. Jewett, Aug (Ds); Poughkeepsie, Je, *Yg*; Ramapo, Je, Ft. Montgomery, May (Ds); Highbridge, May (Ds); **SI**, Je (Ds); **LI**: Gardiners I., Je (Ds); Kings Pk., Jl, *Bs* (MCV); Flatbush, May, *Zab*; Port Jefferson (Beq); Wading R., May (Ds); Half Way Hollow Hills, Jl (Ds).

*D. grossa* Fab. (*tergissa* Say). Ithaca, Jl; Poughkeepsie, Jl; Yonkers, Jl, *Ang* (Bs); **SI**: Clove Val., Je, *Ds* (Beq); **LI**: Flatbush, Jl, *Bs*; Wyandanch, Aug, *Ds* (Beq); Kings Pk., Jl (Bs); Brooklyn, Rockaway Beach, Aqueduct, *Ols* (Beq).

*D. posticata* Say. Mt. Whiteface, Jl, *Ds* (Jn); Adirondacks, Je-Jl (Joh); Paradox L., Jl, *Ds* (Jn); Gloversville, May; Erie Co, Je-Jl (MCV); Pike; Portageville, *Ds* (Beq); Rock City, Je, *Ds* (Jn, Beq); Tompkins Co, Je-Jl (Hine); Albany, May-Je; Karner, Je; Nassau, Sep; Rensselaer, May; **LI**: Pennequid Barrens (Beq).

*D. sacrator* Wlk. Adirondacks; N. Elba (Jn); Upper Ausable L. (Beq); Tompkins Co, Je-Jl (Hine); McLean, Jl (Joh).

*D. thoracica* Fab. Lowville, Aug (Ds); Oswego; Niagara Falls, Je-Jl (Jn); Erie Co, Je-Jl (MCV); Ithaca (Hine); Syracuse, *Blkm*; Kenwood, Jl; Coeymans, Jl; Albany, Je; West Pt., Je (Robn); Pine I., Je (Ds); Poughkeepsie, Jl; Ft. Montgomery (Beq); W. Nyack (Beq); New Baltimore, *Zab*; **SI**: Tompkinsville, Je, *Ds*; Richmond, Jl (Ds); Clove Val., May-Je, *Ds*; Egypt's I., Je (Ds); Tottenville, Je (Ds); Ft. Wadsworth, Jl (Bs); **LI**: Brooklyn, Je, *Shoe*, *Ds* (AM); Flatbush, Jl, *Zab*, *Schott* (Beq); Wading R. (Beq); Cold Sp. Harb., Je (Ds); Jamaica, Je (Ds).

## LAPHRIA Meigen

*L. aeatus* Wlk. (*index* McAtee). Erie Co, Jl (MCV); Genesee Co, Je, *Ds* (Beq); West Pt., Je, *Ds* (Beq).

*L. aktis* McAtee. Rock City, Je, *Ds* (Beq); Ft. Montgomery, *Schott* (Beq).

- L. altitudinum** Bromley. **L.** Tear, 4300 ft. (Beq).  
**L. canis** Will. Keene Val., Upper Ausable L. (Beq); Erie Co, Jl-Aug (MCV); Little Valley, Je, Aug; Tompkins Co, Je-Jl, Sep (Hine); Haines Falls; Olivera (Beq); Ft. Montgomery, Aug, *Ds* (Beq); W. Nyack (Beq); **SI**: Ft. Wadsworth, Jl, Watchogue, Jl, Arrochar, Jl (Bs); Richmond, Aug, *Ds* (Beq); **LI**: Wyandanch (Beq).  
**L. dispar** Bks. (*canis* Will.?). Ithaca (Bks).  
**L. gliva** L. (*bilineata* Wlk.). Big Moose, Jl, *Yg*; Pike.  
**L. sadalis** Wlk. (*pubescens* Will.). "NY" (Wlk); Axton, Je (Joh).  
**L. scorpio** McAtee. "NY".  
**L. sericea** Say. Essex Co, Jl; N. Elba, Jl, 2000 ft., *Wat* (Beq); Speculator, Jl, *Yg*; Boston, Jl-Aug (MCV); Pike; Portage, Je, *Ds* (Beq); Little Valley, Je; Tompkins Co, Je-Jl (Joh); Albany (Leon); Pine I., West Pt., Je (Ds); Ft. Montgomery, *Schott* (Beq); **SI**: W. New Brighton, Je, *Ds* (Beq).

## SUBFAMILY ASILINAE

## OMMATIUS Wiedemann

- O. marginellus** Fab. (*tibialis* Say). Poughkeepsie, Jl; White Plains, W. Nyack (Beq); Mosholu (AM); **SI**: Watchogue (Bs); Richmond, Jl (Bs); **LI**: Wading R., Je (Ds); Sands Pt., Aug (Bs); Kings Pk., Jl, *Bell*; Flatbush (AM); Riverhead, Jl, *Ds* (Jn).

## PROCTACANTHUS Macquart

- P. brevipennis** Wied. Mosholu (AM); **SI**: Watchogue, Je, *Bs* (Beq); **LI**: Coram, Aug 18, Yaphank, Jl 5, Riverhead, Aug 4, *Ds* (Beq).  
**P. nigriventris** Macq. **SI**: Kreischerville, *Bs*; **LI**: Fire I., Sep 7, Gardiners I., Aug 20, Yaphank, Je, Riverhead, Je, Calverton, Sep, Coram, Aug, *Ds* (Beq); Kings Pk., Aug, *Bell*.  
**P. philadelphicus** Macq. Severance, Aug; New Russia, Aug (Hine); Albany, Aug; Karner, Sep; Mosholu (AM); NYC, Van Cort. Pk. (Beq); **SI**: Arrochar, Sep 10, *Ds*; New Dorp, Ft. Wadsworth, Sep, *Bs*; **LI**: Cold Sp. Harb., Sep (Beq); Yaphank, Aug 26-Sep 3, Coram, Montauk, Aug 26, *Ds* (Beq); Wyandanch, *Schott* (Beq); Wading R., *Bs*; Gardiners I., Aug 20 (Beq).  
**P. rufus** Will. **SI**: Watchogue, Aug, *Bs* (Beq); **LI**: Manhattan Beach (Beq); Coney I., Sep, Riverhead, Jl 5, *Ds* (Beq); Gardiners I. (Beq).

## ERAX Scopoli

- E. aestuans** L. (*bastardii* Macq.). Elizabeth, Je; Essex Co, Jl; Erie Co, Jl-Aug, S. Wales, Jl (MCV); Ithaca, Je-Aug (Hine); Clinton Hgts., Jl; Poughkeepsie, Jl; Yonkers, *Bs*; White Plains, W. Nyack (Beq); NYC, Van Cort. Pk., *Bs*; **SI**: Richmond, Aug 4, *Ds* (Jn); Reed's Val., Jl 28, *Ds* (Beq); New Brighton, Ft. Wadsworth, *Bs*; **LI**: Sheepshead Bay, Aug; Yaphank, Jl 10, Greenport, Orient, Je-Aug, Selden, Sep, *Ds* (Jn); Maspeth, Aug, *Ols* (Beq); Central Pk., Gardiners I. (Beq); Flatbush, *Eng* (Beq).  
**E. barbatus** Fab. (*cinerescens* Bell; *albibarbis* Macq.). Bronx Pk., Mosholu (AM); **SI**: Ft. Wadsworth, Watchogue, *Bs*; **LI**: Wading R., Aug, *Ds* (Beq); Sands Pt., Jl, Cold Sp. Harb., *Bs* (Beq); Sheepshead Bay, Jl; Gardiners I., Orient, Rockaway Beach (Beq).

- E. rufibarbis** Macq. W. Nyack, *Bs*; White Plains (Beq); **SI**: Ft. Wadsworth, Sep, *Bs*; **LI**: Patchogue, Sep, Montauk, Aug 24, *Ds* (Jn); Wyandanch, *Ds* (Beq); Cold Sp. Harb., Sep, Sands Pt., *Bs*; Gardiners I., Aug 21, *Ds* (Beq); Springs (Beq).

## MALLOPHORA Macquart

- M. clausicella** Macq. **LI**: Oakdale, Huntington, *Schott* (Beq); Wading R., Aug, *Ds* (Jn); Yaphank, *Jl*, *Ds* (Beq).

## PROMACHUS Loew

- P. bastardii** Macq. Keene Val., Aug; Severance, Aug (Bks); New Russia, *Jl*; Tonawanda, Aug (MCV); W. Hebron, Aug, *Lg* (Beq); Albany, *Jl* (Hine); Nassau; Clinton Hgts., *Jl*; Nyack (AM); **SI**: Ft. Wadsworth, *Jl*-Aug, Richmond, *Jl*, *Bs*; **LI**: Maspeth, *Ols* (Beq); Sands Pt., *Bs*.
- P. fitchii** O.S. (*apivorus* Fitch). Nassau, May (Jn); White Plains (Beq); Pelham, *Jl*; **SI**: south shore, Je-Aug, Clove Val., *Ds* (Beq); Richmond, *Jl*, Arrochar, *Jl*, *Bs*; **LI**: Oakdale, Flatbush, *Schott* (Beq); Astoria (AM).
- P. rufipes** Fab. Nyack, Aug, *Zab* (AM).

## ASILUS Linnaeus

- A. alethes** Wlk. "NY" (Wlk); unrecognized.
- A. antimachus** Wlk. Trenton Falls (Wlk); W. Nyack, *Jl*, *Ds* (Beq); **SI**: Ft. Wadsworth, New Dorp, Richmond, Watchogue, Arrochar, Je-Jl (Bs).
- A. auricomus** Hine. Ithaca, Aug (Hine); **LI**: Southold, Sep (Jn).
- A. erythrocnemius** Hine. Stony Pt., *Schott*, White Plains (Beq); **SI**: Richmond, Aug, *Bs*; **LI**: Wyandanch, *Schott*, Orient (Beq); Gardiners I., Je, *Ds* (Beq).
- A. flavofemoratus** Hine (*flavipes* Will.). Mt. Whiteface, summit, *Jl*, *Ds* (Beq); Hamilton Co, *Ds* (Jn); Erie Co, *Jl* (MCV); Ithaca, Je-Jl (Hine); McLean, *Jl*, *Sib* (Joh); Karner, Je; Pine I., Je, *Ds* (Jn); West Pt., Je, *Ds* (Beq); Nyack, Je, *Ds* (Jn); **SI**: Ft. Wadsworth, Je, Watchogue, *Jl* (Bs); **LI**: Farmingdale, Je (Bs); Central Pk., Cold Sp. Harb., Kings Pk. (Beq); Wading R., May, *Ds* (Jn); Yaphank, Je, *Ds* (Beq); Nissequogue, Je, *Ds* (Jn); Sands Pt., Je (Bs).
- A. fuscatus** Hine (*obscurus* Hine). "NY" (Hine).
- A. latipennis** Hine. Ithaca, Aug (Hine).
- A. maneei** Hine. **LI**: Cold Sp. Harb., Aug (Bs); Huntington, *Schott* (Beq).
- A. notatus** Wied. Adirondacks, Je; Keene Val. (Beq); Oswego, *Jl* (Jn); Little Valley, Je (MCV); Ithaca, Je, Aug (Hine); McLean, *Jl*, *Sib* (Joh); Karner, Poughkeepsie, Je-Jl; Ft. Montgomery (Beq); Nyack, Je, *Ds* (Beq); Tomkins Cove, Sep, Carmel (AM); **SI**: Arrochar, *Jl*, *Ds* (Beq); Richmond, *Jl*, Ft. Wadsworth, Je, Watchogue, *Bs* (Beq); **LI**: Cold Sp. Harb., Port Jefferson, Yaphank, Pennekid Barrens, Gardiners I. (Beq).
- A. novae-scotiae** Macq. Adirondacks, *Jl*-Aug; Newport, *Jl*; **SI**: Clove Val., *Jl*, *Ds* (Beq); Tottenville, Je, *Ds* (Beq); Watchogue, Je, *Ds* (Beq); Ft. Wadsworth, *Jl*, Richmond, Oakwood, *Bs*; **LI**: Yaphank, *Jl*, *Ds* (Beq); Maspeth, *Jl*, *Ds*, Gardiners I. (Beq).
- A. orphne** Wlk. (*neortamus*, *distinctus* Will.). Mt. Whiteface, summit, *Jl*, *Ds* (Beq); Adirondacks, *Jl*; Niagara Falls, Je (Jn); Erie Co, Je-Jl (MCV); Tompkins Co, May, *Jl*; W. Hebron, Aug, *Lg* (Beq); Albany, Je; West Pt.,

Je, *Ds*, Ft. Montgomery (Beq); White Plains, *Bno* (Beq); New Rochelle, Aug (AM); **LI**: Aqueduct, Sep, *Ds*, Huntington (Beq).

- A. paropus** Wlk. Ithaca, J1 (Beq); McLean; Clifton Sps., Aug (Hine).  
**A. sadyates** Wlk. Alexandria Bay, Sep; Erie Co, Je (MCV); Little Valley; Tompkins Co, J1-Sep (Hine); Olivera (Beq); West Pt., Je, *Ds*, Stony Pt. (Beq); Ramapo, Je, *Ds* (Beq); **SI**: Richmond, Je, Watchogue, J1, *Ds* (Beq); **LI**: Rockaway Beach, Je, Amagansett, Sep, Yaphank, Je, Fire I., Sep, Cold Sp. Harb., *Ds* (Beq); Wading R., Sep (Bs); Gardiners I., Aug, *Ds* (Beq).  
**A. sericeus** Say. Saranac Inn; Hamburg, Je (MCV); Slingerlands, J1; Poughkeepsie; Ft. Montgomery (Beq); **SI**: Wadsworth, J1, Watchogue (Bs); **LI**: Kings Pk., J1, *Bell*, Queens, Central Pk., Farmingdale, Je (Beq); Flatbush, Je, *Zab*; Astoria (AM).  
**A. snowii** Hine (*annulatus* Will.). Potsdam; Essex Co, Aug; Speculator, J1; Oswego (Jn); Erie Co, J1-Aug (MCV); Ithaca, J1-Aug (Hine); McLean, J1, *Sib* (Joh); Albany, Je; **SI**: Richmond, Ft. Wadsworth, Watchogue, J1 (Bs); **LI**: Montauk, Aug, *Ds*; Flatbush, Aug, *Zab*.

# FAMILY DOLICHOPODIDAE<sup>99a</sup>

## SUBFAMILY SCIAPINAE

### SCIAPUS Zeller

(*Psilopodinus* Aldrich not Bigot; *Agonosoma* Aldrich not Guérin;

*Psilopus* Meigen not Poli)

- S. banksii** VanD. McLean, J1, *Sib*; **LI**: Sea Cliff, *Bks* (MCV).  
**S. calcaratus** Lw. **SI**: Watchogue, J1, *Bs* (MCV); **LI**: Sands Pt., Je, *Bs* (MCV).  
**S. caudatus** Wied. Lancaster, Je; Ithaca, J1; Albany, Je (MCV); **SI**: Richmond, Aug, *Bs* (MCV); **LI**: Sands Pt., Je, *Bs* (MCV); Wading R., Sep, *Bs* (MCV).  
**S. delicatus** Wlk. "NY" (Wlk).  
**S. flavipes** Ald. Erie Co, Je-Aug (MCV); Ithaca, J1; Karner, Je (Yg); Poughkeepsie, Je (MCV).  
**S. inermis** Lw. **LI**: Pennequid Barrens, J1 (Beq).  
**S. novaboracensis** VanD. Gowanda, Je (MCV); Rock Glen, J1 (MCV).  
**S. pallens** Wied. Erie Co, J1-Aug; Albany, May-J1 (NYS); Karner, Je, *Comst* (NYS); Bowling Green, Je-J1 (MCV); **LI**: Sag Harb.; Pennequid Barrens, J1 (Beq).  
**S. patibulatus** Say. Manlius; Orleans Co, Je, *Ds* (MCV); Cattaraugus Co (MCV); Otto; Ithaca, J1; Trenton Falls; Poughkeepsie, Je-J1 (MCV); Pine I., Je 19-22, *Ds* (MCV); L. Waccabuc, Aug (Beq-AM); **SI**: Watchogue, J1 2, *Ds* (MCV); **LI**: Sands Pt., Je, *Bs* (MCV); Farmingdale, Je, *Bs* (MCV); Port Jefferson, J1 (Beq).  
**S. scaber** Lw. Ithaca, J1 (MCV); Lowville, Aug (MCV-Ds); **SI**: Arrochar, Ft. Wadsworth, Je-Aug, *Bs* (MCV).  
**S. scintillans** Lw. Manlius, Aug; Gowanda, Aug; Lancaster (MCV); McLean, J., *Sib*; Ft. Montgomery, *Schott* (Beq).

<sup>99a</sup> The list for this family has been checked by M. C. Van Duzee.



- S. scobinator** Lw. Axton; Niagara Falls; Erie Co, Jl-Aug (MCV); Ithaca; Albany, Je (NYS); W. Nyack, *Bs* (MCV); **SI**, Jl, *Bs* (MCV); **LI**: Sands Pt., Jl, Cold Sp. Harb., Aug, *Bs* (MCV); Wyandanch, *Ols* (Beq); Orient, Jl (Beq).
- S. sipho** Say. Common and widely distributed throughout the State, Je-Sep (MCV).
- S. unifasciatus** Say. Olcott (MCV).
- S. virgo** Wied. "NY" (Wied).

## SUBFAMILY DIAPHORINAE

## DIAPHORUS Meigen

- D. gibbosus** VanD. Colden; Little Valley, May-Je (MCV); Dryden L., Je (MCV-CU); **SI**: New Dorp, *Bs* (MCV); **LI**: Rosedale, May, *Schott* (MCV).
- D. lamellatus** Lw. Erie Co, May-Jl (MCV); **SI**: Richmond, Je, *Bs* (MCV).
- D. leucostomus** Lw. Manlius; Lewiston; Buffalo, Aug (MCV).
- D. leucostomus** var. **infuscatus** VanD. Erie Co, May-Je (MCV).
- D. opacus** Lw. Sacandaga R.; Erie Co, Je-Jl (MCV); Tompkins Co; Albany; **SI**: Richmond, *Bs* (Beq).
- D. palpiger** Wheel. (*Chrysotus spinifer* Mall.). Lewiston; Colden; Erie Co, Je-Aug (MCV); **SI**, Aug, *Bs* (MCV).
- D. sodalis** Lw. Springville, Je (MCV); Colden, Jl (MCV).
- D. spectabilis** Lw. Niagara Falls, Je (Ald); **SI**: Richmond, *Bs* (Beq).
- D. variabilis** VanD. N. Evans, Aug (MCV).

## ASYNDETUS Loew

- A. syntormoides** Wheel. W. Nyack, Jl, *Bs* (MCV); **LI**: Cold Sp. Harb., Aug, Sands Pt., Jl, *Bs* (MCV).

## CHRYSOTUS Meigen

- C. affinis** Lw. Elba; Tonawanda; Erie Co, Je-Sep; Ithaca, Je (MCV); Freeville, Jl; W. Nyack, Jl, *Bs* (MCV); Albany, Je (NYS); **SI**: Arrochar, Jl, Richmond, Sep, *Bs* (MCV); **LI**: Farmingdale, Je, *Bs* (MCV).
- C. anomalus** Mall. McLean, Jl.
- C. auratus** Lw. "NY" (Lw); Albany, Je, Sep; Voorheesville, Jl (Curr).
- C. barbatus** Lw. Lewiston, Aug; Buffalo, Je; E. Aurora, Aug; Salamanca, Jl (MCV); **SI**, Sep (Beq).
- C. bellus** VanD. **SI**: New Dorp, Watchogue, Tottenville, Clove Val., May, *Bs* (MCV).
- C. caudatus** VanD. N. Evans, Aug (MCV).
- C. choricus** Wheel. (*ciliatus* Mall.). Niagara Falls, Je (Jn); Colden, Jl; Elba; Erie Co, May-Jl (MCV); Trenton Falls, Je; Albany, Jl (Curr).
- C. convergens** VanD. Colden; S. Wales, May-Jl (MCV).
- C. cornutus** Lw. Colden; Salamanca, Jl (MCV).

- C. costalis* Lw. Erie Co, Je-Jl (MCV); Tompkins Co; Wells, Je, *Yg* (Curr).  
*C. cressoni* VanD. Beaver Kill, Aug (MCV).  
*C. currani* VanD. Ithaca, Jl (MCV-CU).  
*C. discolor* Lw. Keene Val., Aug (NYS); Speculator, Jl-Aug, *Yg* (Ald); Ithaca, Je, Ringwood, Jl (MCV-CU); McLean, Jl (MCV); W. Nyack, Jl, *Bs* (MCV); **SI**: Clove Val., Je 27, *Ds* (MCV); Richmond, *Bs* (MCV); **LI**: Sands Pt., Jl, *Bs* (MCV); Long Beach, Je (Beq).  
*C. dividuus* VanD. Elba, Hamburg, Lancaster, Je (MCV).  
*C. excisus* Ald. Ringwood, Jl (MCV-CU).  
*C. exiguus* VanD. Colden, Jl (MCV).  
*C. halteralis* VanD. E. Aurora, Jl (MCV).  
*C. hastatus* VanD. Ithaca, Aug.  
*C. hirtipes* VanD. Olcott, Jl (MCV); McLean, Jl; Ithaca, Jl-Aug, Albany, Je, *Yg*.  
*C. hirtipes* var. *dubius* VanD. Ringwood, Jl (MCV-CU).  
*C. magnicornis* VanD. Ithaca.  
*C. major* VanD. Erie Co, Je (MCV).  
*C. obliquus* Lw. Olcott; Elba; Erie Co, May-Aug (MCV); Tompkins Co, May-Aug, McLean, May, Ringwood, Jl (CU); Voorheesville, Jl (Curr).  
*C. pallipes* Lw. Ithaca, Aug (MCV-CU); McLean, Sep, *Sib*; Van Cort. Pk., Jl (MCV-CU).  
*C. parvus* VanD. Erie Co, Jl.  
*C. parvicornis* VanD. E. Aurora; Colden, May-Je (MCV).  
*C. perparvus* VanD. Protection, Jl (MCV).  
*C. picticornis* Lw. Lewiston, Aug; Erie Co, Je-Oct (MCV); Rock Glen, Jl (MCV); Tompkins Co, Jl; W. Nyack, Jl (Beq).  
*C. sagittarius* VanD. Buffalo, Ap (MCV).  
*C. subcostatus* Lw. Albany, Je; Wells, Jl (Curr).  
*C. tibialis* VanD. Clayville, Je, *Leon* (MCV); Silver Creek, Je; Wells, Jl.  
*C. varipes* VanD. Protection, Jl (MCV).  
*C. vividus* Lw. Poughkeepsie, Je, Jl, *Yg* (Curr).  
*C. vulgaris* VanD. Erie Co, Elba, Freeville, Harford, May-Jl (MCV); McLean, Jl, *Sib*; Ithaca, Ellis, Je (MCV-CU); Newport, Je, *Yg* (Curr).  
*C. wisconsinensis* Wheel. Peru, Je (MCV-CU); Lancaster; S. Wales, Jl (MCV); Cayuga L., Speculator, Aug; Wells, Jl, *Yg* (Curr).

## CAMPSICNEMUS Haliday

- C. americanus* VanD. NY (Curr).  
*C. hirtipes* Lw. Niagara Falls, Aug; Erie Co, May-Aug (MCV); Rock Glen, Jl (MCV); Ithaca, Jl-Aug; Albany, Oct; **SI**: Watchogue, *Bs* (MCV).

## KOPHOSOMA Van Duzee

- K. acuticornis* VanD. Ithaca (MCV).  
*K. brevis* VanD. Colden, Lancaster, Olcott, Irving, E. Aurora, Jl; Portage; Middleport; Jamestown; Ithaca (MCV).

## SUBFAMILY RHAPIINAE

## ARGYRA Macquart

- A. albicans** Lw. Erie Co, Je-Aug (MCV); Portage, J1 (MCV); Ithaca, Caroline, Taughannock, May; Thacher Pk., May (Curr); **SI**: Watchogue, Aug, *Bs* (MCV).
- A. angustata** VanD. L. Tear, 4500 ft. (Beq); Olean, Aug, *MCV*.
- A. calceata** Lw. Erie Co, J1-Sep (MCV); Little Valley, J1 (MCV); Ithaca, J1, McLean Bogs, Aug (MCV-CU); Manlius, J1; Wells, J1 (Curr).
- A. calcitrans** Lw. Erie Co, Je-J1 (MCV); Colden, Aug (MCV); Portage, J1 (MCV); Ithaca, Je (MCV-CU).
- A. flavipes** VanD. Hoversville, Je (Curr).
- A. robusta** Jn. Portage, J1 (MCV); Ithaca, May (MCV-CU); Ilion, May (Jn).
- A. setipes** VanD. Colden, Aug (MCV); Hamburg, J1 (MCV); Little Valley, J1 (MCV).
- A. thoracica** VanD. Newport, Je (MCV); Lewiston, Je (MCV); Gowanda, Je (MCV); Speculator, Je (MCV); Protection, Je (MCV); Kiamesha (MCV).

## LEUCOSTOLA Loew

- L. cingulata** Lw. Erie Co, Je-J1 (MCV); Hoversville, Je; Wells, J1 (Curr).
- L. venustus** Mall. NY.

## RHAPHIUM Meigen

(Porphyrrops Meigen)

- R. armatum** Curr. Colden (Curr).
- R. canadense** Curr. Poughkeepsie, May; Speculator, Je; Wells, J1, *Yg* (Curr).
- R. effilatum** Wheel. Niagara Co, J1 (MCV); Erie Co, Je-Sep (MCV); Rock Glen, J1 (MCV); Watervliet Reservoir, Aug (Curr).
- R. fascipes** Meig. Lewiston, Je (MCV); Erie Co, May-Aug (MCV); Ithaca, May (MCV).
- R. longipes** Lw. Olcott, J1 (MCV); Colden, May.
- R. lugubre** Lw. Albany, May, *Yg*.
- R. melampus** Lw. Erie Co, May-J1 (MCV); Rock Glen, J1 (MCV); Little Valley, Aug; Ithaca, May-Aug; Ellis, Je; Manlius, Sep; **SI**: Clove Val., *Bs* (MCV).
- R. nigricoxa** Lw. Lancaster, Je (MCV); Corinth, Je, *Yg* (Curr).
- R. ornatum** VanD. Colden, J1 9-23, types (MCV); Lancaster, Je 2, types (MCV); Thomson, May (Curr).
- R. signifer** O.S. Manlius; Erie Co, Je-Aug (MCV); Ithaca; Tarrytown.
- R. slossonae** Jn. Nassau, May (Curr).

## NEMATOPROCTUS Loew

- N. venustus** Mel. W. Nyack, J1 (MCV); Ringwood, J1 (MCV-CU).

## XIPHANDRIUM Loew

- X. femineum** VanD. Rochester, May (MCV).
- X. femineum** var. *dubium* VanD. Gasport, Aug (MCV).

## SYNTORMON Loew

- S. cinereiventris* Lw. Niagara Falls, Aug-Oct (MCV); Gasport (MCV); Erie Co, Aug-Sep (MCV).

## SUBFAMILY SYMPYCNINAE

## SYMPYCNUS Loew

- S. canadensis* VanD. Protection, Aug, N. Evans, Je (MCV).  
*S. lineatus* Lw. Speculator, Aug, *Yg* (NYS); Albany, Oct, *Yg*; Rochester, Oct (MCV); Niagara Co; Erie Co; Tompkins Co, May-Aug; W. Nyack, J1 (Beq).

## NOTHOSYMPYCNUS Wheeler

- N. fortunatus* Wheel. Newport, Je, *Yg* (Curr-NYS); Wells, J1, *Yg* (Curr-NYS); Colden, Aug (MCV); Ithaca, Aug; Albany, Sep (Curr-NYS).  
*N. frontalis* Lw. Erie Co, May-Aug (MCV); Ithaca, J1-Aug.  
*N. luteipes* VanD. Wells, J1, *Yg* (MCV).  
*N. nodatus* Lw. Niagara Falls, Je (Jn); Colden, Aug (MCV).

## SUBFAMILY NEURIGONINAE

## NEURIGONA Rondani

- N. aestiva* VanD. Lancaster, Je (MCV); Salem, Je (Curr).  
*N. aldrichi* VanD. Lancaster, Je, E. Aurora, J1 (MCV).  
*N. arcuata* VanD. E. Aurora, N. Evans, Je-J1, Gowanda, Je (MCV).  
*N. carbonifer* Lw. Erie Co, May-J1 (MCV).  
*N. deformis* VanD. Buffalo, Gowanda, Je (MCV).  
*N. disjuncta* VanD. E. Aurora, Little Valley, Je (MCV); Ithaca, J1.  
*N. dorsalis* VanD. Elma, Irving, Aug (MCV); Ithaca, J1.  
*N. floridula* Wheel. "NY" (MCV); **LI**: Pennequid Barrens, J1, *Beq* (MCV).  
*N. floridula* var. *infuscata* VanD. Erie Co (MCV); Little Valley, Je.  
*N. lateralis* Say. "NY" (Lw); Middleport, J1 (MCV); Albany, Je (Curr).  
*N. maculata* VanD. Erie Co, Je-J1 (MCV); Little Valley, Je; Ithaca; **LI**: Sea Cliff.  
*N. minima* VanD. Ithaca, Aug (MCV-CU), holotype.  
*N. nigricornis* VanD. Colden, Aug (MCV); Wells, J1 (Curr); **SI**: Richmond, J1, *Bs* (MCV).  
*N. rubella* Lw. Buffalo (MCV); **LI**: Sea Cliff, *Bks*; Sands Pt., *Bs* (Beq).  
*N. tarsalis* VanD. E. Aurora, Je, Gowanda, Je (MCV); Ithaca; **LI**: Sea Cliff.  
*N. tenuis* Lw. Niagara Falls, J1; Erie Co (MCV); E. Aurora, J1-Sep.  
*N. tibialis* VanD. Lancaster, Aug (MCV); Ithaca, Aug (MCV-CU).  
*N. viridis* VanD. S. Wales, J1; West Farms (MCV).

## SUBFAMILY XANTHOCHLORINAE

## CHRYBOTIMUS Loew

- C. delicatus* Lw. "NY" (Lw).  
*C. flavicornis* VanD. LI: Richmond Hill (MCV).  
*C. pusio* Lw. Mt. Whiteface, Aug (MCV); Colden, Aug (MCV); Wells, J1 (Curr).

## XANTHOCHLORUS Loew

- X. helvinus* Lw. Wells, Speculator, J1-Aug, *Yg* (Curr); Niagara Falls, Aug (MCV); S. Wales, J1; Ithaca, Aug; Albany, Aug (Curr-NYS).

## SUBFAMILY THINOPHILINAE

## THINOPHILUS Wahlberg

- T. ochrifacies* VanD. LI: Cold Sp. Harb., Sep, Long Beach, J1, *Bs* (MCV).

## DIOSTRACUS Loew

- D. prasinus* Lw. "NY" (Ald); Wells, J1, *Yg* (Curr).

## SUBFAMILY MEDETERINAE

## MEDETERUS Fischer von Waldheim

- M. aberrans* Wheel. Gowanda, Je (MCV).  
*M. distinctus* VanD. E. Aurora, Je, holotype (MCV).  
*M. emarginatus* VanD. Peru, Oct (MCV-CU).  
*M. fimbriatus* Lw. Sacandaga Pk. (MCV-CU).  
*M. frontalis* VanD. Hamburg, May, Aug (MCV), holotype; Chautauqua Co, Je (MCV).  
*M. nigripes* Lw. E. Aurora, J1 (MCV); Little Valley, Je; Ithaca, Aug; L. Clear, Je (Curr).  
*M. obesus* VanD. E. Aurora, J1 (MCV), holotype.  
*M. veles* VanD. S. Wales, Little Valley, J1 (MCV).  
*M. vittatus* VanD. Peru, Aug (MCV-CU); Erie Co, J1, Sep (MCV), paratype; Albany, Je; Little Valley, Je (MCV); LI: Long Beach, Je (Beq).

## PELOROPEODES Wheeler

- P. salax* Wheel. Wells, J1, *Yg* (MCV).

## THRYPTICUS Gerstaecker

- T. comosus* VanD. Ellis, J1 (MCV).  
*T. fraterculus* Wheel. Lewiston, Aug (MCV); Voorheesville, J1.  
*T. muhlenbergiae* Joh. & Cy. Ithaca, May (Joh). Larva in stems of *Muhlenbergia* (type).



- T. tectus** VanD. E. Aurora, J1 (MCV); Ringwood, J1 (MCV-CU); Albany, Je (Curr).  
**T. willistoni** Wheel. Sacandaga Pk., Je (MCV-CU); Olcott, J1 (MCV); Manlius; Erie Co, May-Je (MCV); Ellis, Je; Ithaca, May, J1 (MCV-CU).

## SUBFAMILY HYDROPHORINAE

## HYDROPHORUS Fallén

- H. aestuum** Lw. Erie Co, Aug-Sep (MCV); **SI**: Watchogue, May, *Bs* (MCV).  
**H. agalma** Wheel. Buffalo, Oct (MCV).  
**H. amplexans** Ald. L. Tear, J1 (MCV).  
**H. chrysologus** Wlk. L. Tear, 4300-4600 ft., J1, *Beq* (MCV-Bs).  
**H. flavipennis** VanD. Buffalo, Oct (MCV).  
**H. intentus** Ald. **SI**: Watchogue, May, Sep, *Bs* (MCV); **LI**: Sands Pt., J1, Cold Sp. Harb., Sep, *Bs* (MCV).  
**H. philombris** Wheel. Rochester, Sep; Buffalo, Aug-Oct (MCV).  
**H. pirata** Lw. Elma, Colden, Springville, J1-Oct (MCV); Karner, Oct.

## SCELLUS Loew

- S. exustus** Wlk. Buffalo, Je; Grand I., Aug (MCV).

## ORTHOCERATIUM Schrank

(*Liancalus* Loew)

- O. genuale** Lw. Essex Co, J1-Aug; Elizabethtown, Aug (NYS); Keene Val., Aug (NYS); Niagara Falls, May-Oct (MCV); Erie Co, Je-Oct (MCV); Ithaca, J1-Aug (Ald); Meadowdale, Aug; Poughkeepsie, Je (NYS).

## SUBFAMILY DOLICHOPODINAE

## DOLICHOPUS Latreille

- D. abrasus** V. C. & A. Grand I., Aug.  
**D. abruptus** Ald. L. Tear (Ald).  
**D. absonus** V. C. & A. Grand I., Aug; Buffalo, Sep.  
**D. acuminatus** Lw. Lewiston; Lancaster; Erie Co, May-Oct (MCV); Rock Glen, J1 (MCV); Ithaca, J1 (VC&A).  
**D. adultus** V. C. & A. Speculator, Je, *Yg* (Leon); Ilion, May, *Yg* (Curr); Lewiston, May; Colden; E. Aurora; Hamburg; Erie Co; McLean, May; Thomson, May 25 (Leon).  
**D. aequalis** V. C. & A. Wilmington Notch, J1, *Leon* (Curr); Wells, J1, *Yg* (Curr); Hoversville, Je, *Leon* (Curr); Erie Co, J1-Aug; Rock Glen, J1 (MCV); McLean, May; Franklinton, Je, *Leon* (Curr).  
**D. ainsleei** V. C. & A. Irving, Aug.  
**D. albiciliatus** Lw. Manlius (OS); Olcott, J1 (MCV); western NY.  
**D. albicoxa** Ald. Adirondack Lodge, J1, *Leon* (Curr); Elm L., Aug, *Yg* (Curr); Elizabethtown, Je (Leon); Erie Co, Je; Portage, J1.

- D. barbicauda* V. C. & A. Hoversville, Je, *Leon* (Curr); Franklinton, *Leon* (Curr).
- D. batillifer* Lw. Hoversville, Je, *Leon* (Curr); Portage, J1 (MCV); Trenton Falls, Je 20, *Yg*; Albany, Je 13 (Leon); West Pt.; **SI**: Richmond, Je, *Bs* (MCV).
- D. bifractus* Lw. Mt. McIntyre, summit, J1, *Leon* (Curr); Niagara Co, Aug; Erie Co; Ithaca, Je-Sep (MCV); Long Beach, Je-J1, *Bs* (MCV).
- D. brevimanus* Lw. Ithaca and vic., May-Je (MCV).
- D. burnesi* V. C. & A. Ballston L., Aug 26 (Leon); **SI**: Arrochar, *Bs* (MCV), holotype; **LI**: Wading R., Sep, *Bs* (MCV), allotype.
- D. calcaratus* Ald. Upper Ausable L. (Beq); Moss Pond, Essex Co, 4200 ft. (Beq); Erie Co, Je-Sep (Ald); Rock Glen, J1 (MCV); E. Aurora; Little Valley, J1 (MCV); Ithaca, J1, *Bs* (MCV); Voorheesville, Je 19 (Leon); Poughkeepsie, Je 5, *Yg* (Leon).
- D. coercens* Wlk. "NY" (Wlk).
- D. comatus* Lw. Wells, J1, Newport, Je, *Yg* (Curr); W. Winfield, Je, *Leon* (Curr); Niagara Co; Erie Co, May-Sep (MCV); Tompkins Co; Albany, May 22; Karner, Je 27, *Yg*; Poughkeepsie, Je; **SI**: Watchogue, Aug, New Dorp, Je, Clove Val., *Bs* (MCV); **LI**: Huntington, Oct, *Schott* (MCV); Cold Sp. Harb., Aug-Sep, *Bs* (MCV).
- D. conterminus* Wlk. "NY" (Wlk).
- D. continguus* Wlk. "NY" (Wlk).
- D. cuniculus* VanD. Grand I., Aug.
- D. cuprinus* Wied. Wells, J1, *Yg* (Curr); Blue Mt., J1 24, *Yg*; W. Winfield, Je, *Leon* (Curr); Manlius; Erie Co, Je-Sep; Little Valley, Aug (MCV); Tompkins Co, Je-J1 (Joh); Watervliet Reservoir, Aug, *Leon* (Curr); Albany, Je; Nassau L., Sep 3 (Leon); Nassau, J1 8; Voorheesville, J1, *Leon* (Curr); Poughkeepsie, Je; W. Nyack, J1, *Bs* (MCV); **SI**: Richmond, Je, New Brighton, *Bs* (MCV).
- D. dakotensis* Ald. Rochester, May (MCV); Trenton Falls, Je (Curr); Albany, Je (Curr).
- D. dasypodus* Coq. Moss Pond, 4200 ft., J1 (Beq).
- D. decorus* VanD. Buffalo, Je.
- D. defectus* V. C. & A. Wells, J1, *Yg* (Curr); Niagara Falls; Colden; E. Aurora, J1.
- D. detersus* Lw. Speculator, J1, *Yg*; Moss Pond, Essex Co, 4200 ft., J1 (Beq); Manlius; Olcott, J1; Erie Co, May-Aug (MCV); McLean, Je; Saratoga; Ballston L., Aug 26 (Leon); Voorheesville, J1, *Leon* (Curr).
- D. discifer* Stan. (*nigricornis* Mg?). Axton, Je; Dug Mt., Aug, *Yg*; Wells, J1, *Yg* (Curr); Lewiston, Aug (MCV); Colden, Aug; McLean (MCV); Poughkeepsie, Je, *Yg* (Curr).
- D. discolor* V. C. & A. Lewiston, May; Tonawanda, Aug; Lancaster, Je; Nassau, Je (Curr-NYS).
- D. distractus* Wlk. "NY" (Wlk).
- D. domesticus* VanD. E. Aurora.
- D. dorycerus* Lw. Wells, J1, *Yg*; Moss Pond, Essex Co, J1, *Bs* (MCV); pond at foot of Mt. Redfield, 2500 ft., J1 (Beq); L. Tear, 4300 ft., J1 (Beq); Lancaster, Je (Jn).
- D. eudactylus* Lw. Speculator, Wells, J1, *Yg* (Curr); Rochester, Je (MCV); Niagara Falls, Je; Erie Co, Je-J1 (MCV); Rock Glen, J1 (MCV); Ithaca (Joh); Trenton Falls, Je, *Yg*; Albany, Je, *Yg*; W. Nyack, J1, *Bs* (MCV); **LI**: Pennequid Barrens, Orient, J1 (Beq).

- D. finitus* Wlk. "NY" (Wlk).  
*D. flagellitenens* Wheel. E. Aurora, Je.  
*D. flavicoxa* V. C. & A. McLean, J1 (Curr).  
*D. flavilacertus* V. C. & A. L. Tear (Beq); pond at foot of Mt. Redfield, J1 (Beq);  
 LI: Farmingdale, Je, *Bs* (MCV).  
*D. fulvipes* Lw. Cranberry Cr., Je, *Yg*; Erie Co, Je-J1 (MCV); Colden, May  
 (MCV); Little Valley, J1 (MCV); Nassau, May.  
*D. funditor* Lw. Niagara Falls, Sep (MCV).  
*D. gracilis* Ald. Erie Co, Je-Sep (Ald&MCV); W. Nyack, J1, *Bs* (MCV); LI:  
 Wading R., *Bs* (Beq).  
*D. gratus* Lw. Erie Co, Je-Aug (MCV); Rock Glen, J1 (MCV); Ithaca, Je;  
 Trenton Falls; Voorheesville, J1, *Leon* (Curr); Poughkeepsie, Je, *Yg*; West  
 Pt.; W. Nyack, J1, *Bs* (MCV); LI: Cold Sp. Harb., Aug, *Bs* (MCV).  
*D. harbecki* Ald. Adirondacks (Ald).  
*D. idoneus* VanD. E. Aurora, Je.  
*D. incisuralis* Lw. Niagara Falls; Erie Co; Colden, J1 (MCV); Ithaca (MCV);  
 Trenton Falls, J1; Karner, Je (Curr).  
*D. incongruus* Wheel. Elizabethtown, J1 2 (Leon); Erie Co; Colden, May (MCV);  
 Ellis, J1.  
*D. indigena* V. C. & A. Buffalo, Je; S. Wales, Je-J1; Wells, J1 (MCV).  
*D. laticornis* Lw. Little Valley, J1 (MCV); Ithaca, May (MCV); Thacher Pk.,  
 Albany Co, May 27 (Leon).  
*D. latipes* Lw. Manlius; Grand I., Aug-Sep (MCV); Ithaca, Aug (MCV); Pine  
 I., Je 23 (Leon).  
*D. lobatus* Lw. Manlius; W. Winfield, Je, *Leon* (Curr); Olcott, J1; Elba, Je-J1  
 (MCV); Buffalo, Je; Albany, Je (Leon).  
*D. longimanus* Lw. Chazy L., Je; Keene Val., Aug (Lint); Niagara Falls,  
 Je-Aug; Olean; West Pt. (OS).  
*D. longipennis* Lw. Manlius; Irving, J1 (MCV); Ithaca, J1; W. Nyack, J1, *Bs*  
 (MCV); SI: Richmond, J1, *Bs* (MCV).  
*D. luteipennis* Lw. Manlius, Aug (OS); Little Valley, J1 (MCV).  
*D. marginatus* Ald. Colden, Aug (MCV); McLean, May; Germantown, Je, *Leon*  
 (Curr); SI: Watchogue, *Bs* (MCV); LI: Sands Pt., J1, Cold Sp. Harb.,  
 Aug, *Bs*; Orient, Sep (Beq).  
*D. melanocerus* Lw. Niagara Falls, Je (Jn); SI: Watchogue, Je, *Bs* (MCV).  
*D. nigricornis* Meig. (See *D. discifer*).  
*D. nodipennis* V. C. & A. E. Aurora and several other localities in Erie Co, May-Je  
 (MCV); McLean.  
*D. omnivagus* V. C. & A. Elba, Je; E. Aurora, Je.  
*D. ornatipennis* V. C. & A. McLean, J1.  
*D. ovatus* Lw. Manlius, Aug (OS); Lewiston, May-Aug; Ithaca (MCV).  
*D. pachynemus* Lw. Speculator, J1 (*Yg*); E. Aurora, Je (MCV).  
*D. palaesticus* Lw. Axton, Je (Joh); Keene Val., J1, *Lint* (Leon); Chapel Pond,  
 Je, *Leon* (Curr); Wells, J1, *Yg* (Curr); L. Placid, Aug (Curr-NYS); Cas-  
 cade L., Je, *Leon* (Curr); Northampton, Je, *Yg* (Curr); Chazy L., Je 23, *Yg*  
 (Leon); Lewiston, May; Niagara Falls, Je (Jn); Olean (MCV); Albany,  
 Je (Curr-NYS).

- D. pantomimus** M. & B. Niagara Falls, Je.
- D. penicillatus** V. C. & A. (*Hygroceleuthus ciliatus* Ald.). Albany, Je (Curr).
- D. porphyrops** V. C. & A. Axton, Je (MCV); Upper Ausable L., J1 (Beq); Adirondack Lodge, J1 (Leon); Wells, J1, *Yg* (Curr); Lewiston, Aug; Corinth Je, *Yg* (Leon); W. Nyack, J1 (MCV); **LI**: Pennequid Barrens, Aug, *Bs* (MCV).
- D. pugil** Lw. Lancaster, J1; Buffalo (MCV); Karner, Je; **SI**: Watchogue, *Bs* (MCV); **LI**: Sands Pt., J1, Cold Sp. Harb., Sep, *Bs* (MCV).
- D. quadrilamellatus** Lw. Erie Co, J1; Buffalo (MCV); Ithaca, J1 (MCV); **SI**: Richmond, Watchogue, J1, *Bs* (MCV).
- D. ramifer** Lw. Beede's, Keene Val., Aug (Curr-NYS); Wells, J1, *Yg* (Curr); W. Winfield, Je, *Leon* (Curr); Clayville, Je, *Leon* (Curr); Alexandria Bay, Sep; Niagara Falls, J1; Erie Co, Je-Aug (MCV); Tompkins Co; Voorheesville, Aug, *Leon* (NYS); New Rochelle; **LI**: Sands Pt., Long Beach, *Bs* (MCV).
- D. reflectus** Lw. Buffalo, Je (MCV); Ithaca, J1; **SI**: Richmond, Je, *Bs* (MCV); **LI**: Sands Pt., Je, Sep, *Bs* (MCV).
- D. remus** V. C. & A. E. Aurora, Protection, Je-J1; Portage, J1; Gowanda; Ithaca; McLean, Je; Voorheesville, Je (Leon).
- D. retinens** V. C. & A. Rock Glen, J1 (MCV); Tompkins Co, Je; **SI**: Richmond, *Bs* (MCV), paratype.
- D. ruficornis** Lw. Niagara Falls, J1; Grand I., Aug (MCV); E. Aurora, J1.
- D. scapularis** Lw. Lewiston, May; Erie Co, J1-Aug (MCV); Ballston L., Aug, *Leon* (Curr); Voorheesville, J1, *Leon* (Curr).
- D. scoparius** Lw. Adirondacks (Joh); Saranac Inn, J1; Manlius; Erie Co, Je-J1 (MCV); Jamestown, Je (MCV); Tompkins Co, Je-Aug; Albany (*Yg*); Poughkeepsie.
- D. serratus** VanD. **LI**: Cold Sp. Harb., Je, Aug, *Ds* & *Bs* (MCV).
- D. setifer** Lw. N. Elba, J1, *Leon* (Curr); Niagara Falls, Sep; Erie Co, May-Aug (MCV); Little Valley, Aug; Manlius, Aug; Ithaca; Trenton Falls; Hoversville, Je, Ballston L., Aug, *Leon* (Curr); Albany, Je, *Bish* (Curr); **SI**: Arrochar, J1, *Bs* (MCV); **LI**: Wading R., Sep, *Bs* (MCV).
- D. setosus** Lw. Erie Co, Je (MCV); **SI**: Richmond, *Bs* (Beq).
- D. slossonae** V. C. & A. Upper Ausable L., J1 (Beq); pond at foot of Mt. Redfield, 2500 ft., J1 (Beq); Colden, J1; Salamanca, J1 (MCV); Little Valley, Aug.
- D. sincerus** Mel. E. Aurora, Je (MCV); Johnstown, Aug (Curr-NYS).
- D. sincerus** var. *subdirectus* V. C. & A. Elm L., Aug, *Yg* (Curr).
- D. socius** Lw. Winfield, Je, *Leon* (Curr); Salamanca, J1 (MCV).
- D. socius** var. *gladius* V. C. & A. Tonawanda, Aug; Niagara Falls, J1; Erie Co, Je-Aug (MCV); Watervliet Reservoir, Aug, *Leon* (Curr).
- D. splendidus** Lw. Adirondacks, Je; L. Clear, L. Placid, Je (NYS); Buffalo, Je (MCV); Albany, Je (NYS).
- D. stenhammeri** Zett. L. Tear, J1 (Beq).
- D. tener** Lw. Grand I., Aug (MCV); **LI**: Greenport, J1 (Leon).
- D. terminalis** Lw. Manlius, Aug; Grand I., Aug (MCV); Tonawanda, Aug; Genesee; Voorheesville, J1, *Leon* (Curr).
- D. tonsus** Lw. Irving, J1 (MCV); **LI**: Sands Pt., May-Je, *Bs* (MCV); Orient, J1 (Beq).

- D. trisetosus* VanD. Saranac Inn, J1 (NYS); Colden, May (MCV); McLean, Je-J1.
- D. variabilis* Lw. Mt. Marcy, 4800 ft., J1 (Beq); L. Tear, 4300 ft. (Beq); Wells, J1, *Yg* (Curr); Essex Co, Aug; Keene Val., Aug (NYS); Elizabethtown, Aug, *Yg* (NYS); Manlius, J1-Sep; Niagara Falls, Sep; Erie Co, J1-Sep (MCV); Little Valley, J1; Ithaca, J1, Sep; **LI**: Wading R., Cold Sp. Harb., Sep, *Bs* (MCV).
- D. versutus* V. C. & A. Niagara Falls, Je (MCV).
- D. vigilans* Ald. Tonawanda, Aug; Erie Co, Je-J1 (MCV).
- D. virga* Coq. W. Winfield, Je, *Leon* (Curr-NYS); Wells, J1, *Yg* (Curr-NYS); Albany, Je (Curr-NYS).
- D. virginienensis* V. C. & A. Wells, J1, *Yg* (Curr).
- D. vittatus* Lw. Wells, J1, *Yg* (Curr); Manlius, Aug; Genesee Co; Clyde, J1 27, *Bish* (Leon); Erie Co, Je-Sep; Little Valley, Aug (MCV); Ithaca, Je-Aug; Syracuse, *Blkm* (Hine); Voorheesville, J1, *Leon* (Curr); Nassau, J1 8 (Leon); Albany, Je (Curr); W. Nyack, J1, *Bs* (MCV, Beq); **SI**: Watchogue, Richmond, *Bs* (MCV).

## GYMNOPTERNUS Loew

- G. albiceps* Lw. Erie Co, Je (MCV); Ithaca.
- G. barbatulus* Lw. Base of Mt. Redfield, 2500 ft., J1, *Bs* (MCV); Hague, J1, *Leon* (Curr); Tompkins Co, Je-J1; Clayville, Je, *Leon* (Curr); Voorheesville, J1, *Leon* (Curr); **SI**: Watchogue, May, *Bs* (MCV); Oakwood, *Bs* (Beq).
- G. chalcocrus* Lw. Erie Co, Je (MCV); Ellis; Tompkins Co.
- G. coxalis* Lw. Manlius (MCV).
- G. crassicauda* Lw. Wells, J1, *Yg* (Curr); Erie Co, Je-Aug (MCV); Tompkins Co, Je; Voorheesville, J1, *Leon* (Curr); Albany, Je, *Yg* (Curr); W. Nyack, J1, *Bs* (MCV).
- G. debilis* Lw. Tompkins Co, Je (MCV).
- G. despiciatus* Lw. Erie Co, Je-Aug (MCV); W. Nyack, J1, *Bs* (MCV); **LI**: Farmingdale, Je, *Bs* (MCV).
- G. difficilis* Lw. Erie Co, Je-Aug (MCV); McLean, May; Albany, Je; Wells, J1; Chapel Pond, Je; **SI**: New Dorp, Je, Richmond, Je, Watchogue, *Bs* (MCV); **LI**: Orient, J1 (Beq).
- G. exilis* Lw. W. Nyack, J1 (Beq); Speculator, J1, *Yg*; Wells, J1; Adirondack Lodge, J1.
- G. flavitarsis* VanD. Gloversville, *Alex* (MCV-CU), holotype.
- G. flavus* Lw. Speculator, Aug; Niagara Falls, Aug (MCV); Colden, Aug; Ithaca, J1; Albany.
- G. frequens* Lw. Upper Ausable L., J1, *Bs* (MCV); Wells, Speculator, J1, *Yg* (Curr); Gloversville (MCV-CU); Hague, Aug, *Leon* (Curr); Peru (MCV-CU); Northampton, Je, *Yg* (Curr); W. Winfield, Je, *Leon* (Curr); Erie Co, Je-Aug (MCV); Tompkins Co, including Ringwood, Je-J1; Albany, Je (Curr-NYS).
- G. humilis* Lw. Erie Co, May-J1 (MCV); McLean, May; Albany, Je.
- G. laevigatus* Lw. Hamburg, Je (MCV).
- G. lunifer* Lw. W. Winfield, Je, *Leon* (Curr); Niagara Falls, J1; Erie Co, Je (MCV); Wells, J1, *Yg*.



- G. maculiventris** VanD. **LI:** Cold Sp. Harb. (MCV).  
**G. meniscus** Lw. Wells, J1, *Yg* (Curr).  
**G. nigricera** VanD. **SI:** New Dorp, Watchogue, *Bs* (MCV).  
**G. nigrocoxa** VanD. Poughkeepsie, J1, *Yg*; **SI:** Watchogue, J1, *Bs* (MCV).  
**G. obtusicauda** VanD. Old Forge, Long L., Aug (MCV-CU), paratype; McLean Bogs, May 30 (MCV-CU), paratype.  
**G. opacus** Lw. Erie Co, Je-Aug (MCV); McLean, J1; W. Nyack, J1 (Beq); Shrub Oak, Aug, *Bs* (MCV); **LI:** Sands Pt., J1, *Bs* (MCV).  
**G. parvicornis** Lw. **LI:** Pennequid Barrens, J1 (Beq).  
**G. phyllophorus** Lw. L. George; Wells, J1, *Yg*; Erie Co, Je (MCV); **SI:** Watchogue, *Bs* (MCV).  
**G. politus** Lw. "NY" (Lw); Speculator, Aug; Northampton, Je, *Yg*; **LI:** Greenport, J1.  
**G. robustus** VanD. Manlius, *SmHH* (MCV-CU), holotype.  
**G. scotias** Lw. Mt. Whiteface, summit, J1, *Fbs* (MCV-CU); Grand I., Je (MCV); W. Nyack, J1, *Bs* (MCV).  
**G. spectabilis** Lw. Colden; Lancaster; Gowanda, Je (MCV); McLean, Je-J1; Voorheesville, Je, *Leon* (Curr).  
**G. subdilatatus** Lw. W. Nyack, J1, *Bs* (MCV).  
**G. subulatus** Lw. Upper Ausable L., J1 (Beq); Speculator, Je-Aug, *Yg* (Curr); Erie Co, Je-J1 (MCV); Ithaca, J1; Trenton Falls.  
**G. ventralis** Lw. Erie Co, Je-Aug (MCV); Little Valley, Je; Albany, Je (Curr-NYS); **SI:** Richmond, Je, *Bs* (MCV); **LI:** Orient, J1 (Beq).  
**G. vernaculus** VanD. Erie Co, Je (MCV).

## HERCOSTOMUS Loew

- H. ornatus** VanD. Williamsville, Aug (MCV), types (Psyche, vol. 28, p. 129); Sands Pt., J1, *Bs* (MCV).  
**H. (Proarchus) violaceus** VanD. Dayton, J1 (MCV), types; McLean, J1 (MCV-CU).  
**H. vestitus** Mel. **LI:** Rosedale, May (MCV).

## PARACLIUS Loew

- P. albonotatus** Lw. Colden, Aug (MCV); Dayton, Je (MCV); Ithaca, J1, Taughannock Falls, Je (MCV-CU).  
**P. alternans** Lw. New Rochelle (Lw).  
**P. angulatus** VanD. Colden, Aug (MCV).  
**P. claviculatus** Lw. New Rochelle (Lw); **LI:** Cold Sp. Harb., Aug, *Bs* (MCV).  
**P. hybridus** Mel. **LI:** Sands Pt., J1, *Bs* (MCV).  
**P. vicinus** Ald. **LI:** Cold Sp. Harb., Sep, *Bs* (MCV); Sands Pt., J1, *Bs* (MCV).

## TACHYTRECHUS Loew

- T. binodatus** Lw. Northville, Je, *Yg* (Curr); E. Aurora, J1-Aug (MCV); Dayton, J1 (MCV); McLean, J1; Saratoga.

- T. moechus** Lw. Wells, J1, *Yg* (Curr); Portage, J1; Erie Co, J1 (MCV); Rock Glen, J1 (MCV); Little Valley, Aug; Trenton Falls; Hoversville, Je, *Leon* (Curr); W. Nyack, J1 (Beq).
- T. vorax** Lw. Erie Co, Aug (MCV); Rock Glen, J1 (MCV); McLean, J1, *Sib*; Stony Pt., Je 27, *Ds* (MCV)<sup>1</sup>; W. Nyack, J1, *Bs* (MCV); **SI**: Richmond, *Bs* (MCV); **LI**: Wading R., Sep, *Bs* (MCV).

## PELASTONEURUS Loew

- P. abbreviatus** Lw. New Rochelle, Je (Lw); **LI**: Cold Sp. Harb., Sep, Sands Pt., J1, *Bs* (MCV).
- P. laetus** Lw. Buffalo, May-Aug (MCV).
- P. lamellatus** Lw. "NY" (Lw); **LI**: Gardiners I., Aug, Cold Sp. Harb., Oct (Beq).
- P. longicauda** Lw. "NY" (Lw); **LI**: Cold Sp. Harb., Sep (MCV).
- P. lugubris** Lw. Manlius; Buffalo, Aug (MCV); Trenton Falls; **SI**: Watchogue, *Bs* (Beq); **LI**: Sands Pt., *Bs* (MCV).
- P. neglectus** Wheel. Lewiston, Aug; Lancaster, Je (MCV); Grand I., Aug; Albany.
- P. ramosus** VanD. Rock Glen, J1 (MCV).
- P. vagans** Lw. Wells, J1, *Yg* (Curr); W. Winfield, Je, *Leon* (Curr); Manlius, Aug; Erie Co, May-Aug (MCV); Jamestown, Je (MCV); Rock Glen, J1 (MCV); Ithaca, Je-Aug; Albany, Je (Curr-NYS); Watervliet Reservoir, Aug, *Leon* (Curr); Voorheesville, J1, *Leon* (Curr); Ballston L., Aug, *Leon* (Curr); W. Nyack, J1, *Bs* (MCV); **SI**: Richmond, *Bs* (MCV); **LI**: Gardiners I., Aug (Beq).

FAMILY EMPIDIDAE<sup>99b</sup>

## DRAPETIS Meigen

- D. alaternigra** Mel. Cold Sp. Harb. (Mel).
- D. pubescens** Lw. "NY" (Lw).
- D. septentrionalis** Mel. Cold Sp. Harb. (Mel).
- D. spectabilis** Mel. Cold Sp. Harb. (Mel).

## PLATYPALPUS Macquart

- P. aequalis** Lw. Niagara Falls, Je; E. Aurora, Je, *MCV*; Ithaca, J1 (Mel); Manlius; Albany, Je.
- P. apicalis** Lw. Woodhull L., Aug; Cold Sp. Harb.
- P. callithrix** Mel. Niagara Falls (Mel).
- P. coquilletti** Mel. **LI**: Bayville, Bks (Mel).
- P. crassifemoris** Fitch. Ithaca; **LI**: Cold Sp. Harb.; Sea Cliff (Mel).
- P. discifer** Lw. Buffalo, Erie Co, Ap-Sep, *MCV*; McLean, Je-J1, *Sib*.
- P. flammifer** Mel. Ithaca; E. Aurora, *MCV* (Mel).
- P. flavirostris** Lw. Erie Co, Je-J1, *MCV*.
- P. hastatus** Mel. Geneva (Mel).

<sup>99b</sup> The list for this family has been checked by Dr. A. L. Melander.

- P. hians* Mel. var. *fuscohalteratus* Mel. Ithaca (Mel).  
*P. lateralis* Lw. "NY" (Mel); McLean, Je, *Sib*.  
*P. mesogramma* Lw. "NY" (Lw); E. Aurora, Aug, *MCV*.  
*P. pachynema* Lw. Tarrytown (Lw).  
*P. pectinator* Mel. Niagara Falls (Mel).  
*P. sutor* Mel. "NY" (Mel).  
*P. tersus* Coq. Woodworth's L., Aug.  
*P. trivialis* Lw. Axton, Je; Erie Co, J1, *MCV*.  
*P. versutus* Mel. Ithaca (Mel).

## TACHYPEZA Meigen

- T. fenestrata* Say. Hamburg, *MCV*; Gowanda (Mel).  
*T. rapax* Lw. Erie Co, May, Aug, *MCV*.  
*T. rostrata* Lw. "NY" (Lw).

## TACHYDROMIA Meigen

- T. maculipennis* Wlk. (*pusilla* Lw.). Erie Co, May, Je, *MCV*; Geneva (Mel); Albany, Je (NYS); **LI**: Sea Cliff (Mel).

## CHERSODROMIA Walker

- C. houghii* Mel. **LI**: Cold Sp. Harb., Oak I., Goose I. (Mel).

## COLOBONEURA Melander

- C. inusitata* Mel. **LI**: Cold Sp. Harb., Oak I. (Mel).

## CHELIPODA Macquart

- C. albiseta* Zett. Ithaca (Mel).

## HEMERODROMIA Meigen

- H. capta* Coq. Wells, J1, *Yg*.  
*H. empiformis* Say. "NY" (Mel).  
*H. notata* Lw. McLean, Sep, *Sib*.  
*H. palloris* Coq. Woodworth's L., Aug; Hamburg, May, *MCV*.  
*H. rogatoris* Coq. Ithaca, Je (Mel).  
*H. scapularis* Lw. Old Forge (Ndm); Beaver Kill, Aug (CnJr).  
*H. valida* Lw. "NY".

## CHIROMANTIS Rondani

- C. vocatoria* Fall. Speculator, Aug (NYS); Ithaca.

## ROEDERIODES Coquillett

- R. juncta* Coq. Saranac Inn, J1 29 (Coq).

## CLINOCERA Meigen

- C. binotata* Lw. "NY" (Lw).  
*C. conjuncta* Lw. "NY" (OS-AM).  
*C. hamifera* Mel. (MS.). Ithaca, Ap (Mel).  
*C. lineata* Lw. Ithaca, Ap (Mel).  
*C. maculata* Lw. "NY"; McLean, Sep, *Sib*.  
*C. taos* Mel. "NY".

## SYNECHES Walker

- S. pusillus* Lw. Ithaca, Je-Jl (Mel).  
*S. rufus* Lw. Erie Co, May-Aug, *MCV* (Mel).  
*S. simplex* Wlk. Erie Co, Je; Tompkins Co, Je-Aug (Mel); Albany, Je; Freeville (Mel); **LI**: Cold Sp. Harb., Jl (Mel).  
*S. thoracicus* Say. Tompkins Co, Je-Aug (Mel); Erie Co, Je-Aug; Ithaca, Je; Gowanda, *MCV* (Mel).

## SYNDYAS Loew

- S. dorsalis* Lw. "NY" (Lw); Hamburg, *MCV* (Mel).  
*S. polita* Lw. Speculator, Jl (NYS); **LI**: Cold Sp. Harb. (Mel).

## EUHYBOS Coquillett

- E. duplex* Wlk. Ithaca, McLean (*MCV*).  
*E. nigripes* Mel. Ithaca and vic., Je (Mel).  
*E. subjectus* Wlk. Slaterville, Je (Mel); McLean, Jl (Mel).  
*E. triplex* Wlk. Erie Co, May, Je, *MCV*; Niagara Falls, Je (Mel); Manlius; Trenton Falls; Albany, Jl; McLean, Je-Jl, *Sib*.

## HYBOS Meigen

- H. reversus* Wlk. Trenton Falls (Wlk); S. Wales; Erie Co, Jl-Aug, *MCV*; McLean, Aug, Sep, *Sib*; **LI**: Cold Sp. Harb.  
*H. slossonae* Coq. Speculator, Jl; Erie Co, Jl-Aug, *MCV*; McLean, Aug-Sep, *Sib*; **LI**: Cold Sp. Harb.

## OEDALEA Meigen

- O. ohioensis* Mel. Ithaca (Mel).  
*O. pruinosa* Coq. Gowanda, *MCV*, Ithaca (Mel).

## TRICHINA Meigen

- T. nura* Mel. Gowanda, *MCV* (Mel).

## ANTHALIA Zetterstedt

- A. bulbosa* Mel. Kiamesha (Mel).

## LEPTOPEZA Macquart

- L. compta* Coq. Speculator, Aug; Niagara Falls, Je (CnJr); Erie Co, Je-Jl, *MCV*; Ithaca, Je-Jl (Mel); Albany, Je; McLean, Je, *Sib*.  
*L. disparilis* Mel. Little Valley, Je, *MCV*.  
*L. rufipes* Meig. Niagara Falls, Je (CnJr); Ithaca (Mel).

## OCYDROMIA Meigen

- O. glabricula* Fall. Erie Co, May-Sep, *MCV*; Trenton Falls; Tompkins Co, Je, Aug-Sep, *Sib* (Mel); Hamburg.

## BLEPHAROPROCTA Loew

- B. binummus* Lw. Niagara Falls, Je (Mel); Ithaca.  
*B. serratula* Lw. Erie Co, May-Je, *MCV*; E. Aurora, May-Jl; Ithaca, Je; Niagara Falls, Je (Mel).

## PACHYMERIA Stephens

- P. pudica* Lw. Nyack, *Schott* (Beq); Ithaca.

## EMPIS Linnaeus

- E. amystis* Wlk. "NY" (Wlk).  
*E. armipes* Lw. "NY" (Lw).  
*E. cucuminifer* Mel. Hillburn, *Schott* (Beq).  
*E. humile* Coq. McLean (Mel).  
*E. laevigata* Lw. L. Tear, Mt. Skylight (Beq).  
*E. longipes* Lw. L. George, *OS* (Lw); Niagara Falls, Je (Mel); Erie Co, May, *MCV*.  
*E. nuda* Lw. Ithaca (Mel).  
*E. otiosa* Coq. Hamburg, May, *MCV*.  
*E. pallida* Lw. "NY" (Lw).  
*E. poeciloptera* Lw. "NY" (Lw); Erie Co, Je.  
*E. rufescens* Lw. Axton, L. Placid, Je (NYS).  
*E. sordida* Lw. Rensselaer; E. Aurora, Je.  
*E. stenoptera* Lw. Holland (Mel).

## HILARA Meigen

- H. femorata* Lw. Niagara Falls, Je; Lancaster, Je, *MCV*; Ithaca (Mel).  
*H. gracilis* Lw. Elizabeth, Aug (NYS); McLean, Aug, *Sib*; **LI**: Cold Sp. Harb. (Mel).  
*H. leucoptera* Lw. **LI**: Sheepshead Bay, Je.  
*H. macroptera* Lw. McLean, Je, *Sib*.  
*H. mutabilis* Lw. Saranac Inn, Je (Coq); Albany.  
*H. testacea* Lw. New Rochelle (*OS*).



- H. tristis* Lw. Axton, Je (Joh); Erie Co, May-Je, *MCV*; McLean, Je, *Sib*;  
Upper Ausable L. (Beq).  
*H. umbrosa* Lw. Elm L., J1 (NYS); Hamburg, Je, *MCV*.  
*H. unicolor* Lw. Axton, Je.

## OREOGETON Schiner

- O. obscura* Lw. Holland, May, *MCV*.

## CYRTOMA Meigen

- C. femorata* Lw. Erie Co, May, *MCV*; McLean, Je, *Sib*.  
*C. halteralis* Lw. Speculator, J1 (NYS); Erie Co, May-Je, *MCV*.  
*C. longipes* Lw. Speculator, J1; Erie Co, Je-Aug, *MCV*; Albany, Sep (NYS);  
McLean, J1, *Sib*.

## RHAMPHOMYIA Meigen

- R. amplipedis* Coq. **LI**: Yaphank (Mel).  
*R. angustipennis* Lw. "NY" (Lw).  
*R. aperta* Lw. Nineveh, Ap (NYS).  
*R. basalis* Lw. Essex Co (NYS); Gowanda, Je, *MCV*.  
*R. brevis* Lw. Nassau, May (NYS); N. Evans, May, *MCV*.  
*R. clavigera* Lw. Nassau (NYS).  
*R. cophas* Wlk. "NY" (Wlk).  
*R. corvina* Lw. "NY" (Lw).  
*R. daria* Wlk. "NY" (Wlk).  
*R. dimidiata* Lw. Hamburg, E. Aurora, May, Aug, *MCV*.  
*R. frontalis* Lw. Hamburg, May; N. Evans, May, *MCV*; Albany, May (NYS).  
*R. fumosa* Lw. "NY" (Lw); Ithaca, *Leon* (Joh).  
*R. gilvipes* Lw. Adirondacks, J1 (NYS); Buffalo, Je; Grand I., Je; L. Tear (Beq).  
*R. gracilis* Lw. Elizabeth, Aug (NYS); McLean, Aug, Sep, *Sib*; Oliverea, Catskills  
(Beq).  
*R. irregularis* Lw. Colden, May.  
*R. laevigata* Lw. Erie Co, Je, *MCV*.  
*R. liturata* Lw. Holland, May, *MCV*.  
*R. longicauda* Lw. Albany, J1 (NYS); Poughkeepsie, Je.  
*R. luctifera* Lw. "NY" (Lw); Ithaca (Mel).  
*R. luteiventris* Lw. Holland, May, *MCV*; L. Tear (Beq).  
*R. macilenta* Lw. Mt. Marcy, J1 (NYS).  
*R. manca* Coq. **LI**: Cold Sp. Harb. (Mel).  
*R. minytus* Wlk. Nassau, May (NYS).  
*R. mutabilis* Lw. Nassau, May (NYS); McLean, Sep, *Sib*.  
*R. nigricans* Lw. Axton, Je; Nassau, May (NYS).  
*R. polita* Lw. Gowanda, Je, *MCV*.  
*R. pulchra* Lw. "NY" (Lw).  
*R. pulla* Lw. Albany, May (NYS); McLean, Je, *Sib*.

- R. rustica* Lw. Axton, Je.  
*R. sordida* Lw. "NY" (Lw).  
*R. testacea* Lw. Karner, Ap (NYS).  
*R. umbrosa* Lw. Mt. Marcy, L. Tear (Beq).  
*R. valga* Coq. Poughkeepsie, May (NYS).  
*R. virgata* Coq. Axton, Je.

## FAMILY LONCHOPTERIDAE

## LONCHOPTERA Meigen

- L. furcata* Fall. L. Tear, 4300 ft (Beq); W. Nyack, *Beq* (Jn).

FAMILY PHORIDAE<sup>100</sup>

## TRUPHEONEURA Malloch

- T. microcephala* Lw. Ithaca, Ap, *Joh* (Mall); Albany, Ap, *Yg*; Erie Co, Aug-Oct (MCV).

## CHAETONEUROPHORA Malloch

- C. luggeri* Ald. Niagara Falls, Je; E. Aurora, Je, Aug (MCV); Ithaca, May, *Joh* (Mall).  
*C. olympiae* Ald. Ithaca, *Joh* (Mall).  
*C. spinipes* Coq. Ithaca, *Joh* (Mall).

## PARASPINIPHORA Malloch

- P. bergenstammi* Mik. Ithaca, *Jl* (Brues).  
*P. multiseriata* Ald. Wells, *Jl* (Yg); E. Aurora, Aug (MCV); Ithaca (Brues).  
*P. pachyneura* Lw. Colden, May (MCV).  
*P. slossonae* Mall. Ithaca, Je, *Joh* (Mall).  
*P. spinulosa* Mall. Ithaca, *Joh* (Mall).

## DOHRNIPHORA Dahl

- D. concinna* Meig. (*nitidifrons* Brues). Erie Co, *Jl*-Sep (MCV); Rochester, Oct (MCV); Ithaca, *Jl*-Sep (Brues).  
*D. venusta* Coq. Ithaca, Feb (Brues).

## HYPOCERA Lioy

- H. ehrmanni* Brues. Niagara Falls, May (MCV).  
*H. flavimana* Meig. Gloversville, *Jl*; Albany, Ap; McLean, Ap, Sep, *Sib* (Joh).  
*H. johnsoni* Brues. **LI**: Wyandanch, *Schott* (Beq).  
*H. mordellaria* Fall. Colden, May (MCV).

<sup>100</sup> The manuscript of the list for this family has been checked by C. T. Brues, who has made several corrections and additions.

## PHALACROTOPHORA Enderlein

*P. speirae* Brues. Grand I., Je (MCV).

*P. longifrons* Brues. Ithaca, *Joh* (Mall).

## MEGASELIDA Rondani

(*Aphiochaeta* Brues)

*M. agarici* Lint. LI: Glen Cove, Oct (Mall).

*M. albidohalteris* Felt. Erie Co, May, Oct (MCV); Ithaca, Je.

*M. aletiae* Comst. Ithaca, *Joh* (Mall).

*M. borealis* Mall. N. Evans (MCV).

*M. brunnipes* Mall. Lancaster, Mar (MCV).

*M. cayuga* Mall. Ithaca, Aug, *Joh* (Mall).

*M. ciliata* Zett. Ithaca, Aug, *Joh* (Mall).

*M. difficilis* Mall. Ithaca, Aug, *Joh* (Mall).

*M. flava* Fall. Buffalo, Grand I., JI; Niagara Falls, JI (MCV); Ithaca, Aug (Mall).

*M. fungicola* Coq. Ithaca (Brues).

*M. inornata* Mall. Ithaca, *Joh* (Mall).

*M. iroquoiana* Mall. Ithaca, *Joh* (Mall).

*M. johannseni* Mall. Ithaca, *Joh* (Mall).

*M. lutea* Meig. Ithaca, *Joh* (Mall).

*M. minor* Zett. Ithaca (Brues).

*M. nigriceps* Lw. Ithaca (Brues); NYC (Beq).

*M. peregrina* Mall. Niagara Falls, JI (MCV).

*M. picta* Lehm. Colden; N. Evans, May (MCV); Ithaca (Mall).

*M. pulicaria* Fall. Buffalo (MCV); Ithaca (Mall).

*M. ruficornis* Meig. Ithaca, *Joh* (Mall).

*M. rufipes* Meig. Fulton Co; Buffalo, Je, Sep (MCV); Ithaca, JI (Mall); McLean, *Claas* (*Joh*); Albany, Sep, Ap; NYC (Brues).

*M. rusticata* Mall. Ithaca, Ap, *Joh* (Mall).

*M. scalaris* Lw. Colden; Lancaster, May, Je (MCV).

*M. straminea* Mall. Ithaca, Aug, *Joh* (Mall).

*M. straminipes* Mall. Ithaca, Ap, Aug, *Joh* (Mall).

*M. subatonella* Mall. Ithaca, *Joh* (Mall).

*M. tertia* Brues (*inaequalis* Mall.). Ithaca, *Joh* (Mall).

## APOCEPHALUS Coquillett

*A. coquilletti* Mall. Ithaca, Oct (*Joh*).

*A. wheeleri* Brues. Colden, Aug (MCV).

## GYMNOPHORA Macquart

*G. quartomollis* Schmitz (*arcuata* auct. not Meig.). Niagara Falls, Je (Jn); Erie Co, Je, Oct (MCV); Ithaca, Je-JI.

**PHORA** Latreille*(Trineura* Meigen)**P. aterrima** Fab. Fulton Co, Aug; Chapel Pond, Je, *Leon* (Yg); Ithaca, May, Sep, *Joh* (Mall); Albany, May; NYC (Brues).**P. velutina** Meig. L. Placid, Aug (MCV).**CONICERA** Meigen**C. dauci** Meig. Westfield, J1; Ithaca, Aug; Sullivan Co (Brues).**PULICIPHORA** Dahl**P. glacialis** Mall. Ithaca.FAMILY **PLATYPEZIDAE****AGATHOMYIA** Verrall**A. canadensis** Jn. McLean, Aug, *Sib* (Joh).**A. cushmani** Jn. Boston, Sep (MCV).**A. notata** Lw. Niagara Falls, J1; Erie Co, J1, Aug (MCV).**A. perplexa** John. Elma, Aug 24 (MCV); McLean, Sep (*Sib*).**A. talpula** Lw. Colden, May (MCV); Cayuga L. (Joh).**A. vanduzeei** Jn. Springville, Sep (MCV); Colden, Aug (MCV); McLean, Sep, *Sib* (Joh).**CALLIMYIA** Meigen**C. venusta** Snow. Elizabethtown, Aug (Yg); Lancaster, Je (MCV).**PLATYPEZA** Meigen**P. anthrax** Lw. Niagara Falls, Sep (MCV); Little Valley, J1 (MCV); Ithaca, J1-Sep (Joh).**P. flavicornis** Lw. Elma, Colden, E. Aurora, Niagara Falls, Aug-Sep (MCV).**P. infumata** Haliday. E. Aurora, Gowanda, Colden, May-J1 (MCV).**P. minorata** Bks. Colden, Aug (MCV).**P. pallipes** Lw. (*Calotarsa ornatipes* Towns.). Ithaca (Bks); Ft. Montgomery, *Schott* (Beq).**P. taeniata** Snow. Niagara Falls, Sep (MCV); E. Aurora, Aug; Boston, Sep, Little Valley, J1 (MCV); Elmira, Oct; Ithaca, Sep (Jn).**P. velutina** Lw. Niagara Falls, Je-J1 (Jn); E. Aurora, Aug-Sep (MCV); Lancaster, Aug (MCV); Jamestown, Je (MCV); Ithaca, J1-Sep; **SI** (Beq).**PLATYPEZOIDES** Johnson**P. diversa** Jn. Niagara Falls, Sep, *MCV* (Jn), paratype.**MICROSANIA** Zetterstedt**M. stigmatalis** Zett (*Platynema imperfecta* Lw.). Ithaca, May (Joh).

FAMILY PIPUNCULIDAE

(*Dorylaidae*)

CHALARUS Walker

*C. spurius* Fall. Niagara Falls and vic., J1 (MCV); Ithaca vic., May-J1 (Joh); Albany, May.

VERRALLIA Mik

*V. pilosa* Zett. **LI**: Wyandanch, J1 (Beq); foot of Cliff Mt., Essex Co, 3000 ft. (Beq).

NEPHROCERUS Zetterstedt

*N. daeckei* Joh. Rock City, Je (Snn); Poughkeepsie, Je; **LI**, J1 (Jn).

PIPUNCULUS Latreille

*P. aequus* Cress. Ft. Montgomery, *Schott* (Beq).

*P. affinis* Cress. Rock City, Je; Vandalia, Je; Ithaca and vic., May-J1 (Joh).

*P. appendiculatus* Cress. Niagara Falls, Je (MCV); **LI**: Sea Cliff (CnJr).

*P. atlanticus* Hough. Axton, Je (Joh); Erie Co, May-Je; Niagara Falls, Je (MCV); Ithaca, Je, Sep (CnJr); Poughkeepsie, Je; **LI**.

*P. caudatus* Cress. **LI**: Sea Cliff, Sep (CnJr).

*P. cingulatus* Lw. Johnstown, Je; Erie Co, Je, Sep (MCV); Vandalia; Ithaca, Aug, Sep (CnJr).

*P. cingulatus* var. *velutinus* Cress. Lancaster, Je, N. Evans, Aug (MCV).

*P. confraternus* Bks. **LI**: Sea Cliff (Bks).

*P. coquilletti* Kertesz. Long L., Aug (Kertesz).

*P. discolor* Bks. Ithaca, J1 (Bks).

*P. fuscus* Lw. Colden, Aug (MCV); Ithaca, Je (Joh); Poughkeepsie, Je.

*P. houghi* Kertesz (*femoratus* Cress.). Elma, Aug (MCV); Ithaca, Je-Sep (CnJr); Colden, Aug (MCV).

*P. horvathi* Kertesz. Long L., Aug; Salamanca, J1 (MCV); Ithaca, May, J1, Sep (CnJr).

*P. minor* Cress. Erie Co, May-Aug (MCV); Ithaca and vic., May-Aug (CnJr).

*P. nigripes* Lw. Ithaca (CnJr); **SI** (Beq).

*P. pallipes* John. Ithaca, Aug (CnJr); Upper Ausable L. (Beq).

*P. republicae* Wlk. (*fuscus* Lw.?). "NY" (Wlk).

*P. scoparius* Cress. Beaver Kill (CnJr).

*P. similis* Hough. Erie Co, Je-Sep (MCV); **LI**: Sea Cliff (CnJr).

*P. sororius* Cress. Ithaca (CnJr); **LI**: Sea Cliff.

*P. subvirescens* Lw. Axton, Je; E. Aurora, J1 (MCV); Ithaca, May-Aug.

*P. tarsalis* Cress. Ithaca, J1 (CnJr).

FAMILY SYRPHIDAE

MICRODON Meigen

*M. champlaini* Curr. Ft. Montgomery, *Schott*.

*M. cothurnatus* Bigot. Ithaca, Je.



- M. globosus** Fab. (*fuscipennis* auct. not Macq.). Keene Val., Je (Not); Hamburg, J1 (MCV); Ithaca; McLean; Katonah, Je; Ft. Montgomery, *Schott*; **SI**, *Bs*.  
**M. megalogaster** Snow (*bombiformis* Towns.). Little Valley, J1 (MCV); **SI**, Je, *Ds*; **LI**: Jamaica, Je, *Ds*; Jericho (Bell).  
**M. tristis** Lw. Old Forge, Je; Axton, Je; Black Br., Je; Niagara Co, May-Je (MCV); Little Valley, Je (MCV); Ithaca, Je-J1; Binghamton, Ap; Hudson R. Val.; Ft. Montgomery (*Schott*); **SI**, Je, *Bs*; **LI**: Farmingdale, Je, *Bs*.

#### CHRYSOTOXUM Meigen

- C. derivatum** Wlk. Saranac L., J1; Poughkeepsie, Je.  
**C. fasciolatum** DeG. Keene Val. (Not).  
**C. laterale** Lw. Keene Val.; McLean, Sep, *Hd* (Joh); Oliverea (Beq); **LI**: Huntington (*Schott*); Gardiners I. (Beq).  
**C. perplexum** John. L. George, Sep, *Leon* (Snn).  
**C. pubescens** Lw. (*luteopilosum* Curr.). Erie Co, Aug-Sep (MCV); Inwood, NYC (*Schott*); **SI** (*Bs*); **LI** (*Bs*).

#### MIXOGASTER Macquart

- M. breviventris** Kahl. W. Nyack, J1; Mosholu, J1-Aug (Bno); L. Oscawana, Interstate Pk., Sep (*Bs*); **LI**: Yaphank, Sep, *Ds* (Cnfr); Cold Sp. Harb., Sep.

#### CHRYSOGASTER Meigen

- C. antitheus** Wlk. "NY", type locality. Not recognized. Probably the same as *C. nigripes* Lw.  
**C. ithaca** Snn. Ithaca (Snn).  
**C. nigripes** Lw. Abundant. Colden, Gowanda, Je (MCV); Ft. Potter, J1; Ithaca, J1; Poughkeepsie; W. Nyack, J1, *Bs*; Ft. Montgomery (*Schott*); **SI**, May (*Bs*); **LI**: Sea Cliff, Je; Cold Sp. Harb.  
**C. nitida** Wied. Buffalo, Je (MCV); Ithaca, J1; **SI**, May-Sep (*Bs*); **LI**: Sea Cliff, Je-J1.  
**C. pictipennis** Lw. Ithaca; Caroline, May-Je; Ellis, Je; Van Cort. Pk.  
**C. pulchella** Will. Abundant. Old Forge, J1; Elba, Je (MCV); Ithaca and vic., May-Aug; Albany, May; Van Cort. Pk.

#### PIPIZA Fallén

- P. femoralis** Lw. Keene Val. (Not); Hamburg, Je (MCV); Ithaca, May-Je (Snn); Nyack, May, *Bs*; **SI**, May, *Ds*.  
**P. femoralis** var. *albipilosa* Will. Essex Co, Aug; Rock City, *Ds*; Ithaca, J1; Poughkeepsie, Sep; Pine I.; Nyack (*Schott*).  
**P. nigropilosa** Will. **SI**, J1, *Bs*.  
**P. puella** Will. Nyack, *Schott*; **SI** (Beq).  
**P. quadrimaculata** Panz. Keene Val., Je.

#### PIPIZELLA Rondani

- P. apisaon** Wlk. (*Pipiza modesta* Lw., *nigribarbis* Lw., *pulchella* Will.). "NY", type locality; **SI**: *Bs*; Richmond, *Ds*; **LI**: Sands Pt., *Bs*.  
**P. pubescens** Lw. Hudson R. val.; Ithaca, Je-J1; Hillburn, *Schott*.

## HERINGIA Rondani

- H. salax** Lw. (*Pipiza radicum* Walsh & Rly., *P. pistica* Will.). Ithaca; Ft. Montgomery, Schott; **SI**, Bs; **LI**: Farmingdale, Sands Pt., Wading R., Bs.

## CNEMODON Egger

- C. calcarata** Lw. Ithaca, May-Jl.  
**C. coxalis** Curr. Ithaca, Je, Snn.  
**C. pistioides** Will. Essex Co, Jl; Axton, Je; L. Tear, 4300 ft., Jl (Beq); Ithaca, May.

## PARAGUS Latreille

- P. angustifrons** Lw. Fulton Co; Ithaca, May; Ft. Montgomery, Jl (Ds); **SI**, Je-Sep (Bs,Ds); **LI**: Sea Cliff, Sep; Wyandanch (Schott).  
**P. bicolor** Fab. Essex and Fulton Counties, Colden, Lewiston, May-Jl (MCV); Niagara Falls, Je; Ithaca, Je; Ft. Montgomery (Schott); **SI**, May (Bs).  
**P. tibialis** Fall. Axton, Je; Ilion, May; Ithaca, Je; **SI**, Je (Bs); **LI**: Sea Cliff, Jl.

## CHILOSIA Meigen

- C. orilliaensis** Curr. Freeville; McLean; Caroline; Danby, Ap-May, on *Caltha palustris*; Ithaca, Snn.

## CARTOSYRPHUS Bigot

- C. cyanescens** Lw. Ithaca, Je-Jl.  
**C. pallipes** Lw. Keene Val., Je (Not); Long L., Ds; Cedarville, Je; Ithaca, Jl; L. George, Sep.  
**C. similis** Snn. L. Placid, Sep; Ithaca, Sep; **SI**.  
**C. slossonae** Snn. Keene Val., May (Not).  
**C. tristis** Lw. Keene Val., Je; Ithaca, May-Jl.

## CHALCOMYIA Williston

- C. aerea** Lw. McLean, May.

## MYIOLEPTA Newman

- M. nigra** Lw. Keene Val., Je-Jl (Not); Hamburg, Je (MCV); Ithaca, May; West Pt. (Ds).  
**M. varipes** Lw. Keene Val., Je (Not); Ithaca.

## EUMYIOLEPTA Shannon

- E. strigilata** Lw. Ithaca, Je.

## CALLICERA Panzer

- C. johnsoni** Hunter. Danby, Je; **SI**: Grasmere, Ap, Bs.

## FERDINANDEA Rondani

*(Chrysochlamys Rondani)*

- F. buccata** Lw. Ithaca, May-Je; Suffern, May, *Schott*.  
**F. dives** O.S. Ithaca, Sep; Ft. Montgomery (*Schott*); **SI**, Aug (Bs).  
**F. nigripes** O.S. Ithaca, May.

## BACCHA Fabricius

- B. cognata** Lw. Ithaca, JI; **SI**, Aug (Bs).  
**B. fascipennis** Wied. (*aurinota* Wlk.). Keene Val., JI-Aug; Niagara Falls, Sep, Erie Co, JI-Sep (MCV); Lake Ridge, Aug; New Baltimore, Aug; Mt. Vernon, Oct; Inwood, NYC (*Schott*); **SI**, Aug-Sep (Bs); **LI**: Sea Cliff, JI-Aug; Wading R., Sep, Sands Pt., JI-Sep (Bs).  
**B. tarchetius** Wlk. Erie Co, Je, Aug, Lewiston, May (MCV); Van Cort. Pk.; **SI**, Sep (Bs).

## OCYPTAMUS Macquart

- O. fuscipennis** Say. Niagara Falls, Sep (MCV); Ithaca; Ft. Montgomery, *Schott*; W. Nyack (Beq); Inwood, NYC, *Schott*; **SI**: Richmond, JI-Aug, *Ds* (Beq); **LI**: Flushing, Aug, *Ds* (CnJr); Sands Pt., *Bs*; Cold Sp. Harb.; Little Neck, *Schott*.

## PYROPHAENA Schiner

- P. granditarsus** Forst. (*ocymi* Fab.). Old Forge, Aug; Elba (MCV); Pine I., Je, *Ds* (Beq); **SI**, Je (Bs).  
**P. rosarum** Fab. Caroline, May; **LI**: Queens (*Schott*).

## PLATYCHIRUS St. Fargeau et Serville

- P. chaetopodus** Will. Essex Co (Snn); Ithaca (Snn); Nassau, JI-Aug; Van Cort. Pk.; **SI**, Je (Bs); **LI**.  
**P. hyperboreus** Staeger. Upper Ausable L.; Axton; Erie Co, May-Aug (MCV); Ithaca; Van Cort. Pk.; **LI**: Glendale (*Schott*); Queens (*Schott*); Sea Cliff.  
**P. peltatus** Meig. L. Tear; Erie Co, May-JI (MCV); Ithaca, May-Je, Aug (Snn); Karner; Nyack (*Schott*); **LI**: Cold Sp. Harb.; Flushing (*Schott*).  
**P. perpallidus** Verrall. L. Tear (Beq).  
**P. quadratus** Say. Saranac L.; Erie Co, May-Aug (MCV); Ithaca, Ap-Sep (Bs); Albany; Van Cort. Pk.; **SI**, May-Aug (Bs); **LI**: Glendale (*Schott*); Queens (*Schott*).

## MELANOSTOMA Schiner

- M. mellinum** L. Adirondacks; Mt. Whiteface, JI, *Ds* (Jn); Upper Ausable; Erie Co, May-Sep (MCV); Ithaca, Ap-Sep; Hudson R. Val.; Pine I., Je, *Ds* (Jn); **LI**: Huntington (*Schott*).  
**M. montivagum** Jn. Mt. Marcy, L. Tear, foot of Cliff Mt. (Beq).  
**M. obscurum** Say. Essex Co; Mt. Skylight; L. Tear; Mt. Marcy; Wilmington, Aug, *Ds*; Erie Co, Ap-Oct (MCV); Rock City, Je, *Ds*; Ithaca, JI; Oliverea; **SI**, Ap-Nov; **LI**: Sea Cliff, May; Sands Pt., JI.

## LEUCOZONA Schiner

- L. lucorum* L. var. *americana* Curr. Keene Val., Je (Snn); Mt. Skylight, 4800 ft. (Beq).

## DIDEA Macquart

- D. fasciata* Macq. var. *fuscipes* Will. Erie Co, May-Jc (MCV); Ithaca, Je; L. George, Sep; Karner, May; NYC; **SI** (Bs).

## SYRPHUS Fabricius

- S. amalopis* O.S. Old Forge, J1; Axton, Je; Mt. Marcy, Je-J1 (Beq); Ithaca, May; Nassau, May; Oliveria.
- S. arcuatus* Fall. Adirondacks, Je; N. Evans, May (MCV); Axton, Je; Keene Val., May-J1; Mt. Marcy; Ithaca, Ap-Je; **SI**, May-J1 (Bs); **LI**: Kings Pk., J1 (Bs); J1-Sep.
- S. disjunctus* Will. Keene Val., J1 (Not); N. Evans, May.
- S. divisus* Will. Niagara Falls, Je; Lancaster, Sep (MCV); Oliveria; **SI**, Sep (Bs).
- S. emarginatus* Say. Niagara Falls, Je, Gowanda, Aug (MCV); Ithaca, Je-Aug; Ft. Montgomery (Schott); Stony Pt. (Schott); Inwood, NYC (Schott); **SI**, Sep (Bs); **LI**: Cold Sp. Harb.
- S. felix* O.S. Piseco L., Aug; Grand I., Sep (MCV); Nassau, May; West Pt., Sep; Ft. Montgomery (Schott); **SI**, May-Sep (Bs); **LI**: Flushing.
- S. knabi* Snn. Ithaca, J1-Aug; Ft. Montgomery (Schott); **SI**, May-Sep (Bs); **LI**: Huntington (Schott).
- S. latifasciatus* Macq. (*abbreviatus* Will. not Zett.). **SI**, Je, Bs.
- S. laxus* O.S. Old Forge, J1; Essex Co, J1; Upper Ausable L.; Mt. Skylight; L. Tear; Woodhull L., Aug; L. George, Sep.
- S. nitens* Zett. Nyack (Schott); **SI** (Curr); **LI**: Farmingdale (Curr).
- S. perplexus* Osburn. Mt. Marcy; Keene Val., Ap-J1; Mt. Skylight; Herkimer; Niagara Falls, Sep (MCV); Buffalo, Colden, May (MCV); Rock City, Je, *Ds* (Osburn); Ithaca; Taughannock Falls; Nyack (Schott); Suffern (Schott); White Plains; **SI**, Ap-Sep (Bs); **LI**: Flushing; Queens (Schott).
- S. rectus* O.S. Herkimer, Aug; Erie Co, J1-Oct (MCV); Ithaca, Ap-Aug; Ft. Montgomery (Schott); **SI**, J1-Sep (Bs); **LI**: Sands Pt.; Cold Sp. Harb., Sep (Bs).
- S. ribesii* L. Adirondacks; Niagara Falls, Je; Erie Co, Sep (MCV); Manlius; Ithaca, J1; Catskills; West Pt.; Hillburn (Schott); Suffern, May (Bs); Bronx Pk., J1; **SI**: common (Bs); Clove Val., May, J1, *Ds* (Beq); Richmond, May, *Ds* (Beq); **LI**: Sea Cliff, J1; Cold Sp. Harb., Aug, Sands Pt., Je-Oct (Bs).
- S. ribesii* var. *vittafrons* Sh. Inwood, NYC (Schott).
- S. sodalis* Will. Mt. Marcy (Beq).
- S. torvus* O.S. Adirondacks, J1; L. Tear; Mt. Marcy; Niagara Falls, Je; Buffalo, Ap, Oct (MCV); Ithaca, May; Oliveria; Ft. Montgomery (Schott); **SI**, Ap-May (Bs); Clove Val., *Ds*; **LI**: Flatbush; Glendale (Schott).
- S. venustus* Meig. Keene Val., May (Not); Oliveria.
- S. vitripennis* Mg. Inwood, NYC (Schott); **LI**: Flatbush, Flushing (Schott).

- S. wiedemanii** Jn. (*americanus* Wied.). Abundant. Essex Co, Aug; Niagara Falls, Je; Erie Co, Ap-Sep (MCV); Ithaca; **LI**: Cold Sp. Harb.; Flushing; Flatbush.

**EPISTROPHE** Walker

(*Stenosyrphus* Matsumura)

- E. arcticus** Zett. Mt. Marcy (Beq).  
**E. diversipes** Macq. Old Forge, Je; Mt. Marcy, Jl; L. Tear; Ithaca, May, Oct; L. George, Aug-Sep; Catskills, Aug; Olivera; Inwood, NYC (Schott).  
**E. fisherii** Walton. Ithaca, Je (Snn).  
**E. genualis** Will. Keene Val., Je; L. Tear; Ithaca, May.  
**E. grossulariae** Mg. L. Placid, Aug; Essex Co; Old Forge, Jl; Long L., *Ds*, as *Stenosyrphus lesueurii* Macq.; L. Tear; Mt. Marcy; Erie Co, Ap; Ithaca, May-Je, Aug; L. George, Sep; Saratoga; South L., Catskills, Aug, *Ds*; Olivera; Ft. Montgomery (Schott).  
**E. nudifrons** Curr. Mt. Marcy, Je, *Fbs* (Curr).  
**E. xanthostomus** Will. Hamburg, May (MCV); L. Keuka, May; Ithaca, May-Aug; Trenton Falls, Je; Hillburn, Pine I. (Schott); **SI**: Richmond, May (*Ds*); **LI**: Sands Pt., Je.

**XANTHOGRAMMA** Schiner

- X. flavipes** Lw. Niagara Falls; Lewiston, May, Erie Co, May-Jl (MCV); Ithaca, Je-Jl; McLean, Je; Poughkeepsie; Ft. Montgomery (Schott); Mosholu, May, *Ds*; **SI**, Je-Aug (*Bs*); **LI**: Sands Pt., Je, Cold Sp. Harb., Aug (*Bs*); Gardiners I.

**DOROS** Meigen

- D. aequalis** Lw. Keene Val., May-Je; Big Ind. Val. (Pears); Ramapo, May (*Ds*); **LI**: Wading R. (*Ds*).

**ALLOGRAPTA** Osten Sacken

- A. obliqua** Say. Keene Val., Oct; Mt. Marcy; Erie Co, Je-Oct; Ithaca, Jl-Nov; Albany; Nyack (Schott); Ft. Montgomery (Schott); **SI**, May-Sep (*Bs*); **LI**: Fire I., Glendale (Schott); Sea Cliff, Jl.

**TOXOMERUS** Macquart

(*Mesogramma* Loew)

- T. geminatus** Say. Abundant. Fulton Co; Manlius; Otto; Erie Co, May-Aug (MCV); Ithaca, May-Aug; Albany; E. Jewett, Aug, *Ds*; West Pt., Je, *Ds*; **SI**, Je-Oct (*Bs*); **LI**: Sands Pt., Jl (*Bs*); Central Pk.; Glendale; Flatbush.  
**T. marginatus** Say. Abundant. Adirondacks; Upper Ausable L.; Genesee Co, Je, *Ds*; Erie Co, Je-Oct (MCV); Ithaca, Jl-Oct; **SI**, May-Je, Sep (*Bs*); **LI**: Sea Cliff; Aqueduct, Sep, *Ds*; Fire I. (Schott); Gardiners I.; Wyandanch.  
**T. politus** Say. Erie Co, Aug-Oct (MCV); Ithaca, May-Oct; Albany, Sep; Poughkeepsie, Oct; Ramapo, May, *Ds*; Inwood, NYC (Schott); **SI**, Aug-Sep (*Bs*); south shore, Jl, *Ds*; Watchogue, May (*Ds*); **LI**: Barker's Pt., Oct, Wading R., Aug (*Bs*); Glendale (Schott).



**SPHAEROPHORIA** St. Fargeau et Serville

- S. cylindrica** Say. Abundant. Adirondacks; N. Elba, Oct, *Wat*; Manlius; Honeoye Falls, Je, *Ds*; Genesee Co, Je, *Ds*; Erie Co, May-Oct (MCV); Ithaca and vic., May, Oct; Albany; Oliverea; Stony Pt., Je, *Ds*; Southfields (Schott); White Plains; **SI**, common, May-Oct (Bs); Tottenville, Je-Jl, *Ds*; **LI**: Wading R., Je, *Ds*; Flushing; Huntington (Schott); Sea Cliff.
- S. menthastri** L. Upper Ausable L.; Ithaca, Je-Jl.

**SPHEGINA** Meigen

- S. campanulata** Robt. Keene Val., Je (Not); Ithaca, Je.
- S. flavimanus** Mall. Ithaca (Mall).
- S. keeniana** Will. Keene Val., Je; Upper Ausable L.; Erie Co, May-Je (MCV); Little Valley, Je (MCV); Ithaca, May.
- S. lobata** Lw. Keene Val., Je; Erie Co, May-Je; Ithaca, May-Jl; Karner, Jl; **SI**, May (Bs); **LI**: Sea Cliff, May.
- S. rufiventris** Lw. Keene Val., Je-Jl; Saranac L.; Old Forge; Ithaca, May-Jl; Ft. Edward; Ft. Montgomery (Schott).

**NEOASCIA** Williston

- N. distincta** Will. Colden, May (MCV); Ithaca, May.
- N. globosa** Wlk. W. Winfield, Je (Yg-NYS); N. Fair Haven, Ap-Jl; Erie Co, May (MCV); Ithaca, May-Jl; Freeville; Danby; Hudson R. Val., May; Yonkers; Ft. Montgomery (Schott); **SI**, Je-Jl (Bs); **LI**: Queens (Schott); Sea Cliff, May.

**RHINGIA** Scopoli

- R. nasica** Say. Abundant, May-Sep. Manlius; Conesus L., Je, *Ds* (Beq); Ithaca and vic., May-Aug; Hudson R. Val.; Helderbergs, Jl, *Ds*; Oliverea, Je, *Ds*; Ft. Montgomery (Schott); **SI**, May-Sep (Bs); **LI**: Sea Cliff; Long Beach, etc. Common everywhere.

**HAMMERSCHMIDTIA** Schummel

- H. ferruginea** Scop. Keene Val., Je (Not).

**BRACHYOPA** Meigen

- B. notata** O.S. Keene Val., Je (Not); Ithaca, May.
- B. perplexa** Curr. "NY" (Curr).
- B. vacua** O.S. Old Forge, Je; Fourth L., Fulton Chain (Dickerson); Oswego (Snn).

**VOLUCELLA** Geoffroy

- V. bombylans** L. subsp. **evecta** Wlk. Adirondacks; N. Fair Haven; Gowanda, Je (MCV); Ithaca, Je-Jl; Taughannock, Je-Jl; Hudson R. Val.; Oliverea; Ft. Montgomery, Southfields (Schott); W. Nyack, Jl (Bs); **LI**: Sea Cliff.
- V. bombylans** subsp. **evecta** var. *americana* Jn. Oliverea; Ft. Montgomery; **LI**: Flushing, Wyandanch.

- V. bombylans* subsp. *facialis* Will. var. *lateralis* Jn., Keene Val., J1 (Not).  
*V. fasciata* Macq. **LI**: Gardiners I. (Beq).  
*V. obesa* Fab. **SI** (Bs&Beq).  
*V. vesiculosa* Fab. Ithaca, Je-J1; Poughkeepsie; **LI**: Cold Sp. Harb.

## CONDIDEA Coquillett

- C. lata* Coq. Ft. Montgomery, Je, Schott.

## SERICOMYIA Meigen

- S. bifasciata* Will. Axton, Je.  
*S. chrysotoxoides* Macq. Axton; Keene Val., Je-Oct; Adirondacks; Fulton Co; Upper Ausable; L. Tear; Old Forge; Ray Brook; Portage, Je, *Ds*; Erie Co, J1-Sep (MCV); Ithaca, Je-Aug; McLean; Caroline; Trenton Falls; Albany; Manlius; Olivera; Inwood, NYC (Schott); **SI**, Oct, *Ds*; **LI**: Wyandanch; Flatbush; Cold Sp. Harb., Sep (Bs).  
*S. militaris* Wlk. Mt. Whiteface, J1, *Ds*; Adirondacks, Je-Aug; Keene Val. (Not); Upper Ausable L.; Old Forge; Mt. Marcy; Hamilton Co, *Ds*; Lewiston, May (MCV); Oswego; Erie Co, Je-Sep (MCV); Ithaca; L. George, Je-Sep.

## ERISTALIS Latreille

- E. aeneus* Scop. Erie Co, Sep-Oct (MCV); Karner; NYC, Sep, *Ds* (Beq); **SI**: Ap-Sep (Bs); Watchogue, May, *Ds* (Beq); visits willow catkins, *Ds* (Beq); **LI**: Sea Cliff; Aqueduct, J1, *Ds* (CnJr); Long Beach; Flatbush; Fire I. (Schott); Sands Pt., J1 (Bs). Enters houses in fall like *E. tenax* (Bs).  
*E. anthorinus* Fall. (*montanus* Will.). White Plains (Snn).  
*E. arbustorum* L. Abundant. Genesee Co, J1, *Ds*; Ithaca, May-Oct; E. Jewett, Aug, *Ds*; Pine I., *Ds*; South L., Catskills, Aug, *Ds*; **SI**, taken in Mar on coltsfoot blossoms (Bs); Watchogue, Clove Val., J1-Aug, *Ds*; **LI**: Rockaway Beach, Je, *Ds* (CnJr); Half Way Hollow Hills, J1, *Ds* (CnJr). Common everywhere.  
*E. bastardi* Macq. Keene Val.; Saranac L.; Mt. Skylight; Old Forge; Alexandria Bay; Manlius; N. Fair Haven; Erie Co, Aug-Sep (MCV); Ithaca, May-Sep; McLean; Albany, May-Oct; South L., Catskills, Aug, *Ds* (Beq); Southfields (Schott); NYC, Aug, *Ds* (Beq); Inwood; **SI**, May-Sep (Bs); **LI**: Canarsie; Oakdale (Bell).  
*E. brausi* Will. (*meigenii* auct., not Wied.). Old Forge; Manlius; Wolcott; Erie Co., Je-Aug; Albany; **LI**: Brooklyn, May, *Ds*.  
*E. compactus* Wlk. McLean; Freeville; Caroline, Ap-J1; Ithaca (Snn). Abundant on *Caltha palustris*.  
*E. dimidiatus* Wied. Adirondacks; Mt. Marcy; Manlius, Ap-Sep; Erie Co, Je-Sep (MCV); Ithaca; McLean; Albany; Pine I., Je, *Ds*; Southfields (Schott); Olivera; Hillburn (Schott); Ft. Montgomery (Schott); **SI**, Je-Sep (Bs); visiting willow catkins, May, *Ds*; Arrochar, Sep, *Ds*; Richmond, May; **LI**: Maspeth, Sep; Sea Cliff; Farmingdale; Brooklyn.  
*E. flavipes* Wlk. Fairly abundant. Piseco and Saranac Lakes, Ap-May; McLean; Aug; Erie Co, Sep-Oct (MCV); Olivera; Poughkeepsie; **SI**, J1-Sep (Bs), Aug, *Ds* (Jn); **LI**: Sea Cliff, Aug; Wyandanch (Schott); Orient.

- E. saxorum** Wied. N. Fair Haven, May-Aug; Erie Co, May-Oct (MCV); Ithaca, Je-Jl; McLean; Poughkeepsie; Ft. Montgomery (Schott); **SI**, Je (Bs); **LI**: Sands Pt. (Bs); Gardiners I.
- E. tenax** L. Very abundant. Adirondacks; Mt. Whiteface, summit and trail, *Ds*; Mt. Marcy, Oct, *Ds*; Erie Co, Jl-Sep (MCV); Ithaca, etc., Ap-Oct; Hudson R. Val.; Debruce, Sep, *Ds*; **SI**, Jan-Oct, *Ds*; **LI**: Central Pk., Yaphank, Montauk, Calverton, Amagansett, Ap-Sep, *Ds* (CnJr). Everywhere.
- E. transversus** Wied. Very abundant. Adirondacks; Batavia, Je, *Ds*; Erie Co, May-Sep (MCV); Ithaca, May-Sep; Manlius; Pine I., Je, *Ds*; Albany; Mosholu, May, *Ds*; White Plains; **SI**: Richmond, Clove Val., Arrochar, Tottenville, Je-Oct, *Ds*; May-Oct (Bs); **LI**: Wyandanch, May, Yaphank, Sep, *Ds* (CnJr); Gardiners I.; Orient; Sands Pt., Oct (Bs).

## TROPIDIA Meigen

- T. quadrata** Say. Abundant. Erie Co, May-Sep (MCV); Ithaca, Je-Sep; Albany, Jl; Pine I., Je, *Ds*; Ft. Montgomery (Ols); White Plains; **SI**, May-Sep (Bs, *Ds*); **LI**: Brooklyn; Orient; Queens (Schott); Sea Cliff, May.

## HELOPHILUS Meigen

- H. bilinearis** Will. Ithaca, McLean, Freeville, Ap-May; Van Cort. Pk.; **SI**, Ap, on willow (Bs); **LI**: Flushing.
- H. chrysostomus** Wied. N. Fair Haven, Jl-Aug; Manlius; Conesus L., Je, *Ds* (Beq); Ithaca and vic., Jl (Bs); Albany; **SI**.
- H. conostoma** Will. Saranac L.; Potsdam; N. Fair Haven; Erie Co, May-Aug (MCV); Ithaca; White Plains; Yonkers; **SI**, Je, *Ds* (Beq), May-Oct (Bs); **LI**: Brooklyn; Maspeth (Ols); Jamaica; Queens (Schott); Sea Cliff, Je-Jl.
- H. distinctus** Will. Erie Co, Je-Jl (MCV).
- H. divisus** Lw. Ithaca, May; **LI**: North Beach (Schott).
- H. hamatus** Lw. Johnstown, May; Ithaca, Jl (Bs); **SI**, May-Aug (Bs); **LI**: Wading R., May, *Ds* (Jn).
- H. integer** Lw. "NY"; Ithaca, Je.
- H. laetus** Lw. Abundant. Johnstown; Buffalo, Je-Aug (MCV); McLean, Jl; Ithaca, Je; Ft. Montgomery (Schott); White Plains; **SI**: May-Jl (Bs); Watchogue, Je, *Ds* (Beq); **LI**: Brooklyn.
- H. latifrons** Lw. Abundant, May-Oct. Adirondacks; Buffalo, Je (MCV); Ithaca, May-Sep; Hudson R. Val.; **LI**: Flatbush (Schott).
- H. lunulatus** Mg. Ithaca, Caroline, May; Van Cort. Pk.; **SI**; **LI**: Forest Hills (Ols).
- H. similis** Macq. Abundant, May-Nov. Adirondacks; Piseco L., Aug; Manlius; Erie Co, May-Sep (MCV); Ithaca, May-Sep; Trenton Falls; Albany; **SI**: Sep (Bs); Richmond, Jl, Arrochar, Tottenville, Sep, *Ds* (Beq); **LI**: Wyandanch (Schott); Jamaica, Huntington (Schott); Glendale (Schott); Wading R., Sep (Bs).
- H. stipatus** Wlk. Trenton Falls, type locality; probably the same as *H. conostoma* Will.

**MALLOTA** Meigen

- M. cimbiciformis** Fall. Axton; Old Forge; Lewiston, May (MCV); Niagara; Ithaca; Albany, May-Aug; Olivera; Poughkeepsie, Je-Jl; Pine I. (Ds); **SI**, May-Aug (Bs); **LI**: Sea Cliff.
- M. posticata** Fab. Adirondacks; Axton; Old Forge; N. Fair Haven, May-Aug; Niagara Falls, Je-Jl; Erie Co, Je-Jl (MCV); Portage, Je, *Ds* (Beq); Otto; Ithaca; Albany; Olivera; Catskills; West Pt., Je, *Ds* (Beq); Ft. Montgomery (Schott); **SI**, May-Je (Bs); Clove Val., Jl, *Ds* (Beq); **LI**: Central Pk.; Sea Cliff.

**MERODON** Meigen

- M. equestris** Fab. Keene Val., Je (Not); Ithaca; **LI**: Brooklyn (Eng).

**POLYDONTOMYIA** Williston

(*Triodonta* Williston not Bory)

- P. curvipes** Wied. **SI**, Je-Sep (Bs); **LI**: Sea Cliff, Lynbrook, Je; Long Beach; Manhattan Beach; Kings Pk.; Flatbush (Eng); Rosedale (Schott); Jamaica; Queens.

**TEUCHOCNEMIS** Osten Sacken

- T. bacuntius** Wlk. **SI**, May (Bs); Richmond, Je, *Ds*; Willow Br., May, *Ds*.
- T. lituratus** Lw. Niagara Falls, Je (MCV); Gowanda, Je (MCV); Ithaca; Windsor, May-Je; Poughkeepsie; Ft. Montgomery (Schott); **SI**, May (Bs).

**PTERALLASTES** Loew

- P. thoracicus** Lw. Hamburg, Jl (MCV); **SI**, May, *Ds* (Beq), Je-Sep (Bs); **LI**: Sea Cliff, May.

**SYRITTA** St. Fargeau et Serville

- S. pipiens** L. Very abundant. Upper Ausable L.; Adirondacks; Fulton Co; Manlius; Sodus Pt., Oct (Bs); Erie Co, May, Sep (MCV); Ithaca, Ap-Oct; Hudson R. Val.; Pine I.; Ft. Montgomery (Schott); **SI**, Jl-Oct (Bs); **LI**: Huntington; Brooklyn; Sea Cliff.

**EUMERUS** Meigen

- E. strigatus** Fall. Keene Val.; Buffalo, May-Je, Oct; Geneva, Jl (Felt); Ithaca (Joh); Saratoga Sps., Aug; Schenectady, Jl (Felt); Amsterdam, Jl (Felt); White Plains (Beq); **SI**, Je (Bs).

**XYLOTA** Meigen

(Including *Xylotomima* Shannon)

- X. analis** Will. Ithaca, Je.
- X. angustiventris** Lw. Fulton Co; Niagara Falls, Je; Gowanda, Je (MCV); Ithaca; McLean, Aug; Albany, Je; Hudson R. Val.; W. Nyack; **SI**, Je-Jl, *Ds*.
- X. anthreas** Wlk. Ithaca, Jl; Trenton Falls.

- X. bicolor** Lw. Gowanda, Je (MCV); Ft. Montgomery, Southfields (Schott); **SI**, May-Je (Ds, Bs).
- X. chalybea** Wied. Niagara; Honeoye Falls, *Ds*; Niagara; Ithaca; Caroline; McLean; Poughkeepsie, May-Jl; Pine I. (Ds); **SI**: Richmond, May, *Ds* (Beq); **LI**: Pennequid Barrens.
- X. curvipes** Lw. var. *satanica* Big. Old Forge; Axton; Keene Val., Je-Aug (Not); Mt. Whiteface, summit, *Jl, Ds* (Beq).
- X. ejuncida** Say. Fairly abundant, May-Aug. Adirondacks; Lewiston, May (MCV); foot of Cliff Mt.; L. Tear; Erie Co, Je-Jl (MCV); Ithaca, May-Jl; Poughkeepsie; Olivera; Ft. Montgomery (Schott); **SI**: Ap-Aug, *Ds* (Bs, Beq); Richmond, May, *Ds* (Beq); **LI**: Sands Pt., Je (Bs); Flushing.
- X. ejuncida elongata** Will. E. Aurora, *Jl* (MCV).
- X. fascialis** Coq. (*anthreas* Wlk., *nemorum* auct., not Fab.). Ithaca, Je-Jl.
- X. flavifrons** Wlk. Adirondacks, *Jl, Fbs* (Snn).
- X. fraudulosa** Lw. (*baton* Wlk.). Ithaca; McLean; Freeville; Lakeside Park, Ap-Sep; Hudson R. Val., Ap-Je; W. Nyack (Beq); Nyack (Schott); **LI**: Flushing.
- X. libo** Wlk. (*marginalis* Will.). Axton, Je.
- X. neobscura** Snn. L. Tear, *Fbs*.
- X. pigra** Fab. Ithaca, May; Pelham Pk., Sep (Bs); **LI**, Ap.
- X. plesia** Curr. Mt. Whiteface, *Jl, Ald* (Snn).
- X. subfasciata** Lw. Essex Co, *Jl*-Aug.
- X. vecora** O.S. Old Forge; Mt. Marcy, Je-Jl; Ithaca; Caroline; Ft. Montgomery, Je (MCV).

## BRACHYPALPUS Macquart

- B. frontosus** Lw. Keene Val., Je; Ithaca, Ap-May; Trenton Falls; **SI** (Ds); **LI**: Massapequa; Yaphank (Not); Farmingdale.
- B. rileyi** Will. Caroline, May; **SI**, Mar-May (Bs).

## CRIORHINA Meigen

- C. verbosa** Wlk. Keene Val., May; Caroline, May; Ithaca; Hartsdale, Ap; Ramapo, Mar, on willow catkins, *Ds* (Beq); **SI**: Ap, on willow catkins (Bs); Richmond, Mar, *Ds* (Beq); **LI**: Wyandanch (Schott).

## CYNORRHINA Williston

## (Blera Billberg)

- C. analis** Macq. Keene Val.; Ithaca; McLean; Poughkeepsie, May-Je; Ft. Montgomery, Southfields (Schott); **SI**, Je (Bs); **LI**: Yaphank (Ols); Sea Cliff.
- C. badia** Wlk. (*intersistens* Wlk.). Axton; Adirondacks; foot of Cliff Mt.; Ithaca, Je-Jl; Caroline; Ringwood, Je; Danby (Emerson); Trenton Falls; Olivera; Pine I.; **SI**, May (Bs); **LI**: Yaphank.
- C. confusa** Jn. Axton; Mt. Marcy; Old Forge, Je-Jl; foot of Cliff Mt.
- C. nigra** Will. Keene Val., May-Jl; L. Tear.
- C. pictipes** Bigot. **SI**; **LI**: Yaphank (Eng).
- C. umbratilis** Will. **LI**: Yaphank.



**SOMULA** Macquart

- S. decora** Macq. Fairly abundant. Lewiston, Je (MCV); Niagara Falls, May-Je; Erie Co, Je (MCV); Portage, Je, *Ds*; Ithaca; Hudson R. Val.; Ft. Montgomery, May, *Ds* (Jn, Schott); Pine I. (Schott); Ramapo, Je, *Ds*; **SI**: May-Je, common on Spiraea blossoms (Bs); Clove Val., Je, *Ds*; **LI**: Wading R., May, *Ds* (Jn, Schott); Huntington (Schott).

**MILESIA** Latreille

- M. virginiensis** Dru. Ithaca, Jl, Sep; Ft. Montgomery (Schott); **SI**: Jl-Sep (Bs); Eltingville, Sep, *Ds*; Richmond, Oct, Clove Val., Sep, *Ds*; **LI**: Wading R., Sep (Bs); Pinelawn, Aug, *Ds*; Wyandanch, Flushing (Schott); Yaphank, Jl, *Ds*.

**SPILOMYIA** Meigen

- S. fusca** Lw. Adirondacks, Aug-Sep; L. Pleasant, Aug, *Love*; Erie Co, Je-Aug (MCV); Ithaca; McLean; Olivera; E. Jewett, South L., Catskills, Aug, *Ds*; Ft. Montgomery (Schott).
- S. hamifera** Lw. Manlius; Niagara Falls, Je-Jl; Ithaca; Poughkeepsie; Ft. Montgomery (Schott); **SI**: Jl (Bs); St. George, Jl, *Ds*; **LI**: Flatbush; Kings Pk., Jl (Bell); Pennequid Barrens.
- S. longicornis** Lw. Erie Co, Aug-Sep (MCV); Ithaca, Jl-Sep; Ft. Montgomery (Schott); **SI**, Aug (Bs); **LI**: Sands Pt., Sep (Bs); Gardiners I.; Rockaway Beach (Schott).
- S. quadrfasciata** Say. Elizabethtown; Essex Co, Jl-Sep; Manlius; Erie Co, Aug-Sep (MCV); Otto, Jl-Sep; Ithaca; McLean, Aug; Olivera; **SI**, Sep (Bs); **LI**: Flushing.

**SPHECOMYIA** Latreille

- S. vittata** Wied. Axton, Je; Ithaca, Je, Aug; Karner; Ft. Montgomery (Schott); **SI**, Ap (Bs).

**TEMNOSTOMA** St. Fargeau et Serville

- T. aequale** Lw. Mt. Whiteface, summit, Jl, *Ds* (Beq); Essex Co, Je-Jl; Old Forge, Je-Jl; Upper Ausable L.; Mt. Skylight; L. Tear; Olivera.
- T. alternans** Lw. Axton; Keene Val., May-Jl; Adirondacks, May-Je; Mt. Skylight; Cranberry L. (Drk); Boston, Aug (MCV); Ithaca; Albany; Pine I. (Ds); **LI**: Flushing.
- T. bombylans** Fab. Adirondacks, May-Je; Ithaca and vic.; McLean; Trenton Falls; Poughkeepsie.
- T. excentricum** Harr. Keene Val. (Not); Old Forge, Je-Jl; Boston, Aug (MCV); Ithaca, Je; McLean.
- T. obscurum** Lw. L. Tear, Mt. Skylight (Beq).
- T. pictulum** Will. Rochester (MCV).
- T. venustum** Will. Essex Co, Jl.

**TENTHREDOMYIA** Shannon

(*Ceriodes* auct. not Rondani)

- T. abbreviata** Lw. (*proxima* Curr.). Lancaster, Je (MCV); Ithaca, Je; Taughannock Falls, Jl; Karner.

## CERIODES Rondani

- C. signifera* Lw. (*willistoni* Kahl). Rochester, Je-Jl; Ithaca, Je; Albany.

## FAMILY CONOPIDAE

## CONOPS Linnaeus

- C. brachyrhynchus* Macq.<sup>103a</sup> Tompkins Co (Will); Karner, Jl; Poughkeepsie, Je (Yg); **LI**: Orient (Beq).  
*C. fulvipennis* Macq. **LI**: Manhattan Beach (Beq).  
*C. gracilis* Will. Beaver Kill, Aug (CnJr).  
*C. sylvosus* Will. **SI**, *Bs* (Beq).  
*C. xanthopareus* Will.<sup>103a</sup> **LI**: Hempstead, Jl (Snn); Manhattan Beach (Beq).

## PHYSOCEPHALA Schiner

- P. affinis* Will. Newport, Jl (Yg).  
*P. furcillata* Will. New Russia, Aug (Snn); Wilmington, Jl, *Ds* (Jn); Adirondacks, Aug, *Ndm*; Ithaca, Jl (Joh); Oliverea (Beq); Beaver Kill, Aug (CnJr-ANSP).  
*P. marginata* Say. "NY".  
*P. sagittaria* Say. Norton's Landing, Cayuga L. (Will); L. George, Aug, *Zab* (AM); New Baltimore, Aug, Nyack, Aug (AM); Rye, with *Papaipema impecuniosa*, perhaps as a parasite, Sep 21 (Bird).  
*P. tibialis* Say. Ithaca, Jl (Joh); Albany, Sep (Yg); Mosholu (AM); **SI**: (Beq); Ft. Wadsworth, Jl, *Bs*; **LI**: Wading R., Jl, Sep, *Bs*, Jl 27, *Ds* (Jn); Cold Sp. Harb., Jl (Snn), Sept, *Bs*; Sands Pt., Jl, *Bs*; Farmingdale, Je, *Bs*; Kings Pk., Jl, *Bs*; Manhattan Beach, Flushing, Wyandanch, Orient, Jamaica, Coram (Beq); Yaphank, Jl, *Ds* (CnJr-ANSP).

## ZODION Latreille

- Z. abdominale* Say. **LI**: Cold Sp. Harb., Jl, on *Rhus glabra* (Snn).  
*Z. fulvifrons* Say. Adirondacks, Je, Aug; Erie Co, May-Aug (MCV); Tompkins Co, Je-Aug (Joh); White Plains (Beq); **SI**: Moravian Cemetery, May, *Bs*; New Brighton, Je, *Bs*; Richmond, Aug, *Bs*; **LI**: Sands Pt., *Bs*; Wading R., Sep, *Bs*; Newtown Hgts., Je (AM); Huntington, *Schott* (Beq); Orient (Beq).  
*Z. intermedium* Bks. Oliverea (Beq); **LI**: Central Pk., Sep, *Ds* (CnJr-ANSP); Flushing, Cold Sp. Harb. (Beq).  
*Z. nanellum* Lw. Erie Co, May-Aug, *MCV*; Little Valley, Je, *MCV*; **LI**: Little Neck (Snn).  
*Z. perlongum* Coq. **LI**: Gardiners I. (Beq).

## STYLOGASTER Macquart

- S. biannulata* Say. Wilmington, Aug (Snn); Grand I., Aug, *MCV*; Ithaca, Aug (Snn).  
*S. neglecta* Will. Niagara Falls, Jl; Springville, Jl, *MCV*; Canandaigua L. (Felt); Rhinebeck, Jl (Joh); **LI**: Cold Sp. Harb., Jl (Snn).

<sup>100a</sup> See Curran (Can. Ent., vol. 59, p. 32) on synonymy of *brachyrhynchus* and *xanthopareus*.

## DALMANNIA Robineau-Desvoidy

- D. nigriceps** Lw. Norton's Landing, Cayuga L., *Comstock* (Will); Spencer, Je (Snn); Karner, Je (Yg).

## THECOPHORA Rondani

(*Occemyia* Robineau-Desvoidy; *Oncomyia* Loew)

- T. abbreviata** Lw. Keene Val. (Beq); Bolton (Jn); Rochester, Sep; Olcott, Jl, *MCV*; Erie Co, Jl-Sep (MCV); Perry, *SHEmerson* (Beq); Ithaca, Jl-Aug (Joh); Salem, Aug (Yg); Albany, Aug.
- T. baroni** Will. Hamburg, Sep (MCV); Lewiston, Je (MCV).
- T. loraria** Lw. Johnstown, Aug; Erie Co, Je-Sep, *MCV*; Erie Co, Je-Sep, *MCV*; Ithaca, May-Aug (Joh); Oliverea (Beq); **SI**: Kreischerville, Jl, *Bs*; **LI**: Wading R., Sep, *Bs*; Cold Sp. Harb., Aug, *Bs* (Beq).
- T. modesta** Will. Perry, Aug (Snn); Ithaca, Je-Aug (Snn); **LI**: Cold Sp. Harb. (Beq).
- T. modesta** var. *melanopoda* Will. Rochester, Jl (Joh); Freeville, Aug (MacG).

## MYOPA Fabricius

- M. clausa** Lw. Rock City, Je; Ithaca, Je (Joh); **LI**: Wading R., May, *Schott* (Beq); Wyandanch, *Schott* (Beq).
- M. pilosa** Will. Colden, May, *MCV*.
- M. vesiculosa** Say. Niagara Falls, May-Je; Erie Co, Je-Jl, *MCV*; Ithaca, May (Snn); Tompkins Co (Will, Joh); Karner, May (Yg); Poughkeepsie, Je (Yg).
- M. vicaria** Wlk. Ithaca, Ap-May (Joh, Snn); Karner, Ap (Yg); Albany, May.
- M. virginica** Bks. Ithaca, Je-Jl; Tompkins Co, Je (Snn); Hartford, Je; W. Nyack (Beq); Ft. Montgomery, *Schott* (Beq); **LI**: Cold Sp. Harb., Jl, on *Rhus glabra* (Snn).

## FAMILY PYRGOTIDAE

## PYRGOTA Wiedemann

- P. chagnoni** Jn. Elizabeth, Je; Colden, May (Jn); Ithaca (Joh); White Plains, May; **LI**: Huntington, May.
- P. undata** Wied. Fulton Co; Conesus L., Je (Ds); Ithaca, May-Je (Joh); Richfield, Je (AM); White Plains, *Bno* (Beq); Nyack, Aug, *Zab* (AM); W. Nyack, *Ols* (Beq); Mosholu, May (Ds); Bronx, NY Bot. Gardens, May (Ds); **SI**, Je (Ds); **LI**: Parkville (AM); Long Beach, Rockaway Beach, *Schott* (Beq).
- P. valida** Harr. Newport, May; E. Aurora, May (MCV); Ithaca, May (Comstock); Pearl River, May 11, *Wat*; **SI**, Je (Ds); **LI**: Rockaway Beach, Je (Ds); Wading River, Je (Ds); Maspeth, Je (Ols).

## FAMILY ÆSTRIDAE

Compiled by JOS. BEQUAERT

## ÆSTRUS Linnaeus

- Æ. ovis** L. THE SHEEP BOTFLY. Byron; Ballston Spa, Jl 19, Yg (NYS).

## CEPHENOMYIA Latreille

- C. phobifer** Clark (*abdominalis* Ald.). Mt. McIntyre, summit, J1, *Leon* (Beq); Mt. Whiteface, *Ds* (Ald); Mt. Skylight, J1, 4800–4900 ft. (Beq); Mt. Seward, Je (Joh); Wilmington, Sep 14 (Felt), Sep 9, *Asa Lawrence* (NYS).

## HYPODERMA Clark

- H. bovis** L. Recorded from the following counties: St. Lawrence; Warren; Hamilton; Herkimer; Lewis; Jefferson; Oneida; Onondaga; Genesee; Erie; Livingston; Cattaraugus; Ontario; Yates; Schuyler; Tompkins; Tioga; Cortland; Broome; Chenango; Otsego; Greene; Columbia; Orange; Westchester. This and *H. lineata* are widely distributed in the State almost wherever cattle occur, and are often very troublesome. Many localities in each of the counties listed have been recorded, chiefly by Mr. Wells and Mr. Brundrett through the courtesy of F.C. Bishopp of the U. S. Bur. Ent., as the result of extended survey in the State.

- H. lineata** De Vill. Recorded from the following counties: Clinton; Warren; Herkimer; Lewis; Jefferson; Onondaga; Monroe; Genesee; Erie; Allegany; Schuyler; Tioga; Cortland; Broome; Otsego; Delaware; Albany; Washington; Greene; Columbia; Sullivan; Orange.

## FAMILY CUTEREBRIDAE

Compiled by JOS. BEQUAERT

## CUTEREBRA Clark

- C. cuniculi** Clark (*horripilum* Clark). Albany, Nov, larva from rabbit (Bish); Ithaca, Je 28, J1 4, *Philip Miller* (Joh); **SI**: Clove Val., Je, *Ang* (Ds); **LI**: Sands Pt., J1 (Bs).

## BOGERIA Austen

- B. buccata** Fab. **SI**: Tottenville, Je (Ds).  
**B. emasculator** Fitch (*Cuterebra scutellaris* Brauer). "NY", type locality; Ithaca (Joh).  
**B. fontinella** Clark. Chilson L., J1, *Wat* (Swenk); Lakeview, Aug; Schoharie, Sep (Lint); Olivera, J1 (Swenk), neotype; Pine L., *CWPollard* (Jn).

FAMILY PHASIIDAE<sup>101</sup>

Compiled by L. S. WEST

## CISTOGASTER Macquart

(Gymnoclytia Brauer and Bergenstamm)

- C. immaculata** Macq. Axton; Keene Val.; Wells; Speculator; Johnstown; N. Fair Haven; Cattaraugus; Canandaigua; Manlius; Hemlock L.; Ithaca; McLean; Spencer L.; Ringwood; Owego; Freeville; Albany; Albany Co; Nor-

<sup>101</sup> The lists for the families Phasiidae, Tachinidae, Megaprosopidae, and Dexiidae, as well as for the subfamilies Amobiinae and Miltogramminae of the Sarcophagidae, have been prepared by Dr. L. S. West. He has seen the great majority of the material on which these lists are based, and, in general, assumes authority for all records unless otherwise credited. In order to facilitate comparison, the grouping has been made to follow that of Johnson's "*List of the Diptera of New England*," but this does not necessarily indicate Dr. West's views on the relationships of these groups.

manskill, Albany; L. Tackawasick; DeBruce; Unionville; Rhinebeck; Oliverca (Ald); **SI**: Ft. Wadsworth; Moravian Cemetery; Richmond; New Dorp (Ald); Watchogue (Ald); **LI**: Riverhead; Long Beach, *Bs*. May-Aug.

- C. occidua** Wlk. Niagara Falls, Je; Lewiston, Je (MCV); Erie Co, Je-Sep (MCV); White Plains (Beq); **LI**: Hempstead, Huntington, Jamaica (Beq).

#### GYMNO SOMA Meigen

- G. dubia** West. Ithaca; Lake Ridge; Spring Lake, Cayuga Co; Spencer L.; Trenton Falls. Je-Sep.

- G. fuliginosa** Desv. Keene Val.; Axton; Old Forge; Saranac L.; Chapel Pond; Fulton Co; Lowville; Rochester Jct.; Erie Co (MCV); Hemlock L.; Spencer L.; Ithaca; Freeville; McLean; Oliverca (Beq). Je-Oct.

#### PHASIA Latreille

(Including *Alophora* Desv., *Hyalomyia* Desv., *Phorantha* Rond., *Paraphasia* Towns., etc.)

- P. aeneoventris** Will. Peru, Je; Keene Val., Aug; Chazy L., Je-Jl; Rochester, Sep-Oct (MCV); Erie Co, Je-Aug (MCV); Ithaca, May, *Snn*; Sep, *Mat*; Ringwood, Oct, *Leon*; Owego, Jl, *West*; Onteora Mt., Jl, *How* (Ald & Greene).

- P. brevineura** West. Ithaca, Jl, Sep; McLean, Aug-Sep, *Sib*.

- P. cara** West. (?) Ithaca, Jl; Karner, Oct-Nov.

- P. fenestrata** Big. Ithaca, May, *Snn* (Beq); Caroline, May, *And*; Owego, May, *West*; Albany, May; **SI**: Oakwood, *Bs* (Ald).

- P. fumosa** Coq. Elma, Aug (MCV); Ithaca; McLean, Sep, *West*; Albany.

- P. furva** West. McLean, Aug-Sep, *Sib*.

- P. magnipennis** Jn. Caroline, *And* (Beq); Karner, May.

- ?**P. nigrens** Wulp. Ithaca (probably a misidentification; the specimen is lost).

- P. nitida** Coq. McLean, Jl, *Sib*; Ithaca, May-Je; Owego, Jl, *West*; Poughkeepsie, Jl.

- P. opaca** Coq. Ithaca, Je-Sep.

- P. phasioides** Coq. Keene Val., Aug.

- P. pulvere**a Coq. Coy Glen, Ithaca, Aug; Ithaca, Jl-Aug, *JMStedman*; **SI**, Jl, *Bs* (Ald).

- P. splendida** Coq. Keene Val., Aug; Oliverca (MCV).

- P. subopaca** Coq. Erie Co, Je, Oct (MCV); Ithaca, Jl.

#### PHORANTHELLA Townsend

- P. occidentis** Wlk. Honeoye Falls, Jl (Leon), from *Miris dolabratus*.

#### EUPHORANTHA Townsend

- E. diversa** Coq. Oswego; McLean, Sep, *Sib*; Karner, Oct.



## TRICHOPODA Latreille

- T. cilipes** Wied. Yonkers, Je, *Ang*.  
**T. pennipes** Fab. Irondequoit; Ithaca, Jl; Athens, Jl, *Bs*; Yonkers, Jl; **SI**: Clove Val., Je-Jl, *Ds* (Jn); **LI**: Riverhead, Jl, *Huck*; Baiting Hollow, Jl, Oct, *Huck*; Cold Sp. Harb. (Beq).  
**T. radiata** Lw. "NY".

## FAMILY TACHINIDAE

Compiled by L. S. WEST

## MYIOPHASIA Brauer and Bergenstamm

- M. metallica** Towns. (*aenea* auct.). Keene Val., Jl; Old Forge, Jl; Hemlock L., Aug; Ithaca, Jl; **SI** (Beq); **LI**: Baiting Hollow, Aug-Sep, *Huck*; Riverhead, Sep.

## MAUROMYIA Coquillett

- M. pulla** Coq. Keene Val., Jl.

## EMPHANOPTERYX Townsend

- E. eumyothyroides** Town. Ithaca (Curr).  
**E. menapis** Wlk. Mt. McIntyre, Adirondacks, Je; Ithaca, May; Victory Mills, May; Rensselaer, May; Thomson, May; Thacher Pk., Albany Co, May; Corinth, Je; Albany, May; Poughkeepsie, May; **LI**: Gardiners, E. Hampton, May; Montauk, May; Baiting Hollow, Je, *Huck*.  
**E. prisca** Wlk. (*Cryptomeigenia theutis* auct., in part.). N. Evans, May (MCV); Lancaster, Je (MCV); Ithaca and vic., May; McLean, Je; Ringwood, Je, *West*; Albany, May; Thacher Pk., May; Rensselaer, May; E. Jewett, Ap, *Ds*; **SI**, Ap-May; **LI**: Baiting Hollow, Ap-May, *Huck*.

## EULASIONA Townsend

- E. catskillensis** West. E. Jewett, *Ds*.  
**E. comstockii** Towns. Mt. McIntyre; near Saranac L.; Woodville, L. Ontario; Ithaca; Ringwood; **LI**: Southampton, *Huck*. Je-Jl.  
**E. neglecta** West. Ithaca, Je.

## OCYPTEROSOMA Townsend

- O. polita** Coq. Oswego, Jl; Spring Lake, Cayuga Co.

## EUHYPERECTEINA Townsend

- E. nasoni** Coq. **LI**: Baiting Hollow, Je, Aug, *Huck*.

## SCHIZOTACHINA Walker

- S. convecta** Wlk. Karner, Sep.

## CLAUSICELLA Rondani

- ?**C. usitata** Coq. Ithaca, *Dobrosky*. According to Johnson, this species is synonymous with *Schizotachina convecta* Wlk. Those specimens to which I have referred here are certainly distinct; hence the query. (West.)

## PHYLACTEROPODA Townsend

*P. tarsalis* Coq. Ithaca, J1 (Walton, as *Clausicella*).

## PLECTOPS Coquillett

*P. melissopodis* Coq. Ithaca, Je.

## NEAERA Robineau-Desvoidy

*N. longicornis* Coq. Oswego, Aug, *Sheldon*.

## LISPIDEA Coquillett

*L. palpiger* Coq. Keene Val., Aug.

## THRYPTOCERA Macquart

*T. americana* Towns. Ithaca, Je (Walton, as *Polychaetoneura elyii*).

*T. flavipes* Coq. Rock City, Je; Ithaca, May-Je.

## ACTIA Robineau-Desvoidy

*A. palloris* Coq. Long L., Aug; Ithaca, Je; **LI**, Aug.

*A. pilipennis* Fall. (i.e., *pilipennis* auct.; more than one form is most certainly included here). Ithaca, May-Je, Aug; McLean, Sep, *Sib*; Owego, J1, *West*; Albany, Je; Amenia, Aug; **SI**: Watchogue, Aug (Ald).

## ACTIOPSIS Townsend

*A. autumnalis* Towns. McLean, Aug, *Sib*.

## DICHAETONEURA Johnson

*D. leucoptera* Jn. Keene Val., J1; Ithaca, Je-J1, *West*; Owego, Aug, *BeatriceRWest*; Bainbridge, J1; Albany, J1; Rensselaer, J1; Nassau, Sep; **SI**, J1, *Ds* (Ald).

## CHAETOPHEPS Coquillett

*C. setosa* Coq. **LI**: Baiting Hollow, Je-J1, *Huck*; Selden, J1, *Huck*.

## CELATORIA Coquillett

*C. spinosa* Coq. Thompson L., Aug; **SI** (Beq).

## ADMONTIOPSIS Townsend

*A. tarsalis* Coq. Ithaca, Je.

## EUADMONTIA Townsend

*E. pergandei* Coq. Hamburg, Sep; Clinton Corners, Sep; Coy Glen, Ithaca, Sep; McLean, May, Sep.

## XENADMONTIA Townsend

- X. degeerioides** Coq. Batavia, Je; Ithaca, Jl, Sep; McLean, Jl; Ringwood, Jl; Spring Lake, Cayuga Co, Jl; **SI**, Aug, *Ds*; **LI**: Baiting Hollow, Je, *Huck*.

## HYPERECTEINA Schiner

- H. aestivalis** West. McLean, Jl.  
**H. bishopi** West. Clyde, Jl, *Bish*; Ringwood, Je, *Leon*; **LI**: Baiting Hollow, Oct, *Huck*.  
**H. consternata** West. **LI**: Baiting Hollow, Jl, *Huck*.  
**H. duospinosa** West. **LI**: Baiting Hollow, Aug, *Huck*.  
**H. extricata** West. Albany, Aug.  
 ?**H. retiniae** Coq. **LI**: Riverhead, Sep.  
**H. setigera** Coq. Van Cort. Pk., Je, *Ds*.

## LIXOPHAGA Townsend

- L. variabilis** Coq. (*Hypostena variabilis* Coq.). Elizabethtown, Aug; Ithaca, May-Sep; L. Ridge, Jl; McLean, Sep, *Sib*; **LI**: Baiting Hollow, Aug, *Huck*.

## HYPOSTENA Meigen

- ?**H. gilvipes** Coq. Ithaca.

## METHYPOSTENA Townsend

- M. barbata** Coq. Axton, Je; Lowville, Jl, *West*; Thompson L., Aug; Duck L., Conquest, Aug, *Snn*; Ithaca, Jl; Coy Glen, May; Owego, May, *West*; McLean, Je-Jl, *West*; Ringwood, Jl, *West*; **LI**: Cold Sp. Harb. (Beq).

## OEDEMATOCERA Townsend

- O. flaveola** Coq. Ithaca, Jl; Shelving Rock, L. George, Sep, *Leon*; **LI**: Jamaica, Je, *Yg*; Selden, Jl, Baiting Hollow, Sep, *Huck*.

## TACHINOPHYTO Townsend

- ?**T. maculosa** Coq. Hague, Aug; McLean, Sep, *Sib*.  
**T. tortricis** Coq. **LI**: Baiting Hollow, May, *Huck*.

## DIDYMA Van der Wulp

- D. setifacies** West. Ithaca, Ap, *West*; Albany, Ap-May, *Yg*.

## PSEUDENANTHA Townsend

- P. coquilletti** Ald. Ithaca; **LI**: Baiting Hollow, Jl, *Huck*; Southampton, Jl, *Huck*; Selden, Jl, Long Pond, Wading R., Je, *Huck*.  
**P. pristis** Wlk. Mt. Marcy, 5300 ft. (Beq); Wells, Aug, *Yg*; Colden, Jl; Ithaca and vic., May-Je; **SI**, Jl, *Bs* (Ald); **LI**: Baiting Hollow, Jl-Sep, *Huck*; Selden, Jl-Aug, Wading R., Aug, Southampton, Jl, Riverhead, Je, Aug, *Huck*.

## POLIDEA Macquart

- P. areos** Wlk. Alexandria Bay, Sep; Erie Co, May-Sep (MCV); Cattaraugus, Sep; Ithaca and vic., May-Sep; Ringwood, Je; McLean, Aug-Sep, *Sib*; Taughannock Falls, May; Albany, May; Kenwood, May, *Yg*.

## CHAETOPHLEPSIS Townsend

- C. tarsalis** Towns. (*Hypochaeta endryae* Sm.). Oswego, Je (HESmith).

## APINOPS Coquillett

- A. atra** Coq. Wilmington, 1000-2200 ft., Aug; Ithaca, Je, *West*.

## GENEA Rondani

- G. analis** Say. Keene Val., Aug; Long L., Aug; Woodhull L.; Niagara Falls, Jl (MCV); Little Valley, Jl (MCV); Ithaca, Jl-Aug; Rensselaer, Ap.  
**G. texensis** Towns. Ithaca, NYC (Ald).

## MYOBIOPSIS Townsend

- M. similis** Towns. **SI**, *Bs* (Ald).

## LESKIOMIMA Brauer and Bergenstamm

- L. tenera** Wied. Keene Val., Aug; Saranac Inn, Aug; L. Placid, Aug; Ithaca, Je;  
**LI**: Wading R., Sep (Bs Coll.); ?Sands Pt., Aug (Bs Coll.).

## LESKIOPALPUS Townsend

- L. depilis** Coq. Ithaca, Aug.

## PARADIONAEA Townsend

- P. atra** Towns. Rochester Jct., Jl, *Leon*; Hamburg, Je, Buffalo, Oct (MCV); Ithaca, Jl-Aug; Mud Cr., Tompkins Co, Je; **LI**: Baiting Hollow, Jl-Aug, *Huck*.  
**P. senilis** Towns. "NY", *Comstock* (Towns); **LI**: Baiting Hollow, Jl, *Huck*.

## HYALOMYODES Townsend

- H. triangulifera** Lw. Speculator, Aug; Keene Val., Aug; Rock City, Je; Ithaca and vic., May, Jl, Sep-Oct; Michigan Swamp, Jl; Ringwood, Oct, *Leon* (Ald); Spencer L., Je; McLean, May, Jl, Sep, *Leon*, *Sib*; Caroline to Harford, Je; Corinth, May; Owego, Jl, *West*; **LI**: Wading R., Sep, *Bs* (Ald); Pennequid Barrens. (Beq).

## ORMIA Robineau-Desvoidy

- O. calva** Coq. Karner, Aug; NY, Aug.  
**O. clausa** B. & B. Karner, May; **LI**: Selden, May, *Huck*.  
**O. signifera** Wulp. **LI**: Central Pk. (Beq).

## CLISTOMORPHA Townsend

**C. hyalomoides** Towns. "NY", *Comstock* (Towns).

## EUTRIXA Coquillett

**E. exile** Coq. (*masuria* Coq. not Wlk.). Ithaca, Je-Jl; Saratoga Sps., May, *FTHartman*.

## XANTHOMELANODES Townsend

**X. arcuata** Say. **LI**: Riverhead, Jl, *Huck*.

**X. flavipes** Coq. **LI**: Baiting Hollow, Aug, *Huck*.

## HEMYDA Robineau-Desvoidy

**H. aurata** Desv. Saranac L., Jl; Sodus Pt., *Not* (Beq); E. Aurora, Je (MCV); Ithaca, May, Sep; Poughkeepsie, Aug; **LI**: Flatbush, *Eng* (Beq); Riverhead, Aug, *Huck*; Baiting Hollow, Aug, *Huck*.

## SIPHOPHYTO Townsend

**S. floridensis** Towns. Ringwood, Je; McLean, Aug; **SI** (Bs Coll.).

## EPIGRIMYIA Townsend

**E. polita** Towns. Rochester Jct., Jl, *Leon*.

**E. geniculata** Towns. Essex Co, Aug.

**E. setigera** Coq. Keene Val., Aug; Saranac Inn, Aug; Long L., Aug; Ithaca, Jl.

## SIPHONA Meigen

**S. geniculata** DeG. Keene Val., Aug, *Diven*; Wells, Aug, *Yg*; I. Placid, Aug; Elm L., Aug; Dug Mt., Aug, *Yg*; Colden, May (MCV); Mix Cr. Val., Cattaraugus Co, Je; Little Valley, May (MCV); Ithaca, May-Je; McLean, May; W. Nyack, Jl, *Bs* (Ald); **SI**, *Bs* (Ald); **LI**: Sands Pt., *Bs* (Ald); Baiting Hollow, Je, *Huck*.

## GINGLYMYIA Townsend

**G. acirostris** Towns. E. Aurora, Aug (MCV); Ithaca and vic., Aug-Sep, *JTLloyd* (Joh).

## METAPLAGIA Coquillett

**M. orientalis** Towns. L. Charlotte, Je (Ald).

## PLAGIPROSPHERYSA Townsend

?**P. parvipalpis** Wulp. Speculator, Aug, *Yg*.

## BLEPHARIGENA Rondani

**B. spinulosa** Big. Ithaca; Hamburg, Je (MCV).



**CYRTOPHLOEBA** Rondani

- C. coquilletti** Ald. (*horrida* Giglio-Tos not Coq.). Ilion, May, *Yg*; Ithaca and vic., Ap-May, Aug; Ringwood, *Je, West*; McLean, May; L. George, Sep; **LI**: Yaphank, May, *Huck*; Baiting Hollow, May, *Huck*.

**VORIA** Robineau-Desvoidy

- V. ruralis** Meig. (*americana* Wulp). Near Mt. McIntyre, *Jl, West*; Deansboro, *Je, West*; Chapel Pond, *Je*; Ontario Beach, Aug, *West*; Ithaca, Aug; McLean, *Jl, West*; Slaterville, *Jl, West*; Owego, *Jl, West*; Albany, Aug; Poughkeepsie, *Je, Yg*; Wappingers Falls, *Je, Leon*; **LI**: Baiting Hollow, *Jl-Aug, Huck*.

**STENOPLEURA** Aldrich(*Siphoplaga* Townsend)

- S. anomala** Towns. **LI**: Baiting Hollow, Sep, *Huck*; Cold Sp. Harb., Sep (Bs Coll.), also (Beq).  
**S. latifrons** Ald. (*rigidirostris* Wulp). Saranac L., Sep, *Ds* (Ald); Ithaca, *Jl, West*; Owego, *Jl, West* (Ald); **LI**: Baiting Hollow, Sep, *Huck*.  
**S. similis** Towns. **LI**: Baiting Hollow, Sep-Oct, *Huck*.

**PSEUDOTRACTOCERA** Townsend

- P. lachnosternae** Towns. **SI**: Ft. Wadsworth, Sep, *Bs* (Ald).

**VIVIANIA** Rondani

- ?**V. georgiae** B. & B. Near Saranac L., *Jl, West*.

**BELVOSIA** Robineau-Desvoidy

- B. bifasciata** Fab. Buffalo, *Jl* (MCV); Ithaca, *Je*; near Albany, *Je*; Croton, *Jl, Ds* (Ald); Pine I., *Ds* (Ald); **SI**, *Je* (Bs Coll.), also *Ds* (West); **LI**: Yaphank, *Eng* (Beq); Baiting Hollow, Sep, *Huck*.

**TRIACHORA** Townsend

- T. unifasciata** Desv. Ithaca, *Je-Jl*; McLean, May, *Ds*; Taughannock Falls, *Jl*; Michigan Swamp, *Jl*; Owego, *Jl, West*; Albany, *Jl, Nov*; Ghent, *Nov*; W. Nyack, *Jl* (Beq); Pine I., *Je, Ds*; **SI**, *Je-Oct* (Bs); **LI**: Baiting Hollow, Sep, *Huck*; Wading R., *Je, Ds*; Flushing (Beq).

**MELANOPHRYS** Williston

- M. insolita** Wlk. Axton, *Je* (M&H); Rock City, May-Je; Spencer, *Je*.

**APHRIA** Robineau-Desvoidy

- A. ocypterata** Towns. Ithaca, Aug, Oct, *West*; McLean, May, *Jl, Leon*; **LI**: Central Pk. (Beq); Farmingdale, *Je, Bs* (Ald), *Morrow* (West); Baiting Hollow, *Je, Huck*.

**CYLINDROMYIA** Meigen

- C. carolinae** Desv. A doubtful species, to which there are many references.  
**C. decora** Ald. Ithaca (Ald).  
**C. dosiades** Wlk. Keene Val., Aug, *Diven*; Saranac L., Jl; Erie Co, Je-Jl (MCV); North Cr., Aug; White Plains (Beq).  
**C. euchenor** Wlk. Ithaca; Union Sps. (Ald).

**LINNAEMYIA** Robineau-Desvoidy

- L. haemorrhoidalis** Fall. Keene Val., Jl-Aug; Freeville, Jl.

**BONNETIA** Robineau-Desvoidy

- B. comta** Fall. Keene Val., Aug; Wells, Jl; Rochester Jct., Jl, *Leon*; Niagara Falls, Jl (MCV); Buffalo, Oct (MCV); Walton, Sep; Ithaca, Jl; McLean, Jl-Aug; Owego, Jl-Aug; **LI**: Baiting Hollow, Jl-Oct, *Huck*.

**PYRAUSTOMYIA** Townsend

- P. penitalis** Coq. **SI** (Beq).

**ERNESTIA** Robineau-Desvoidy

- E. ampelus** Wlk. Foot of Mt. Redfield, Essex Co (Beq); Ithaca, Jl; Owego, Jl, *West* (Curran); Big Ind. Val. (Beq); Oliverea, Sep, *Ds* (Ald); **LI**: Baiting Hollow, May, *Huck*. There are numerous records, from all parts of the State, for *Panzeria radicum* auct. A majority of these, upon verification, will probably be found to be referable to *E. ampelus* Wlk. (West.)  
**E. arcuata** Tothill. Ithaca, May, Ringwood, May, *West* (Curran).  
**E. flavicornis** Brauer. Wells, Jl, *Yg* (Curran).  
**E. platycarina** Tothill. Mt. Marcy trail, Jl, *Fbs* (Curran); Big Moose, Aug (Curran); Old Forge, Jl (Curran); Wells, Jl, *Yg* (Curran); Karner, May (Curran).

**METAPHYTO** Coquillett

- M. genalis** Coq. Potsdam, Sep.

**MACROMEIGENIA** Brauer and Bergenstamm

- M. chrysoprocta** Wied. Lancaster (MCV); S. Wales, Gowanda, Jl-Aug (MCV).

**CHRYSOTACHINA** Brauer and Bergenstamm

- C. alcedo** Lw. Niagara Falls, Je; Ithaca, Je; Ringwood, Je, *West*; **SI** (Bs); **LI**: Jamaica, Je, *Yg*; Baiting Hollow, Jl, *Huck*; Selden, Jl-Aug, *Huck*; Wading R., Aug, *Huck*.  
**C. ruficornis** Will. Sport I., Sacandaga R., *Alex*.

**LYPHA** Robineau-Desvoidy

- L. dubia** Fall. Ithaca, *Snn* (Beq).

## NEMORILLA Rondani

*N. insolens* Ald. & Webb. Albany, Je.

*N. maculosa* Meig. (*Exorista pyste* Wlk. of Coq.). Rochester, Sep; Lockport, Je; Bainbridge, Jl; Ithaca, May, Jl-Aug; McLean, Sep, *Sib*, *West*; Ringwood, Jl; Owego, Jl-Aug, *West*; Albany, Je-Jl; **LI**: Baiting Hollow, Sep, *Huck*.

## ZENILLIA Robineau-Desvoidy

(Subgenus **ZENILLIA** Robineau-Desvoidy)

*Z. amplexa* Coq. Ithaca, Jl (Mues & Leon); Poughkeepsie, Je-Jl; **SI**: Ft. Wadsworth, Jl-Aug, *Bs* (Ald); **LI**: Baiting Hollow, Jl, Sep, *Huck*.

*Z. eudryae* Towns. Axton, Je, *M&H*; Ithaca, Aug.

*Z. formosa* Ald. & Webb. Poughkeepsie, Aug; **SI**, Jl, *Ds*; **LI**: Baiting Hollow, Jl, Sep, *Huck*; Wading R., Aug, *Huck*; Selden, Aug, *Huck*.

*Z. helvina* Coq. Big Moose, Aug, *FTHartman*; Ithaca, Jl, Sep; Albany, Je-Jl; Olivera (Beq); **SI**: Ft. Wadsworth, Je, *Bs* (Ald); **LI**: Jamaica, Je.

*Z. inflatipalpis* Ald. & Webb. Ringwood, Jl.

*Z. reclinata* Ald. & Webb. McLean, Sep, *Sib*; Ringwood, Je, *West*.

(Subgenus **PHRYXE** Robineau-Desvoidy)

*Z. caesar* Ald. Mt. Whiteface, 2000-4000 ft., Aug; Rochester, Jl; Niagara Falls, Je; Ithaca and vic., May, Aug-Sep; McLean, Sep, *Sib*; Owego, Jl, *West*; Hoversville, Je, *Leon*; Albany, Je; **LI**: Riverhead, Jl, *Huck*.

*Z. crassiseta* Ald. & Webb. Ithaca, Aug; McLean, Sep, *Sib*; Owego, Aug, *West*.

*Z. vulgaris* Fall. Saranac Inn, Aug; Wells, Jl-Aug, *Yg*; Honeoye Falls, Jl; Ithaca, Je-Jl; Taughannock Falls, May; McLean, Sep, *Sib*; Owego, Jl, *West* (Ald).

(Subgenus **PAREXORISTA** Brauer and Bergenstamm)

*Z. affinis* Fall. McLean, Jl, Sep, *Sib*; **LI**: Long Pond, Wading R., Je, *Huck* (identification doubtful).

*Z. confinis* Fall. N. Fair Haven, Jl, *West*; Niagara Falls, Oct (MCV); Ithaca, Jl-Aug; McLean, Sep, *Sib*; Ringwood, Jl; Slaterville, Aug, *West*; Owego, May, Jl, *West*; Lake Ridge, Jl; Poughkeepsie, May; Middletown, Jl, *Spooner*; **SI**: Clove Val., Aug, *Bs* (Ald); **LI**: Baiting Hollow, Aug, *Huck*.

(Subgenus **EUSISYROPA** Townsend)

*Z. blanda* O.S. E. Aurora, Jl (MCV); Boston, Jl (MCV); Ithaca, Je-Aug; McLean, Jl-Sep, *West*; **SI**, Sep, *Ds* (West), *Bs* (Ald).

*Z. blandita* Coq. McLean, Jl, *West* (Ald).

*Z. futilis* O.S. Niagara Falls, Je; Thompson, May; Ithaca and vic., Je-Aug, reared by C. L. Liu, from *Malacosoma americana*; Olean, Jl, *West*; Malloryville, Je; Caroline to Harford, Je; McLean, Jl, *West*, Sep, *Sib*; Ringwood, May, *Leon*; L. Tackawasick, Je; Spencer L., Je; Michigan Hollow, Jl; **LI**: Brooklyn, Eng (Beq); Flatbush (Beq).

**PHOROCERA** Robineau-Desvoidy(Subgenus **PHOROCERA** Robineau-Desvoidy)**P. assimilis** Fall. **LI**: West Hills, Ap, *Ds* (Ald). Probably an old determination of *slossonae*.**P. slossonae** Towns. Ithaca, Ap, *Diven*, May; **LI**: West Hills, Ap, *Ds*.(Subgenus **PARASETIGENA** Brauer and Bergenstamm)**P. claripennis** Macq. Niagara Falls, Je; Canandaigua, Jl; Ithaca, Sep; Oakwood, Je, *Ds*, *Bs* (Ald); Owego, Jl, *West*; Karner, Aug; White Plains, *Bno* (Beq); **SI** (Beq).**P. einaris** Sm. **SI**, Aug (*Bs*); **LI**: Wading R. (*Bs*).**P. imitator** Ald. & Webb. **LI**: Baiting Hollow, Aug, *Huck*.(Subgenus **PATELLOA** Townsend)**P. leucaniae** Coq. McLean, Jl, *West* (Ald); Olivera (Beq).**?P. silvatica** Ald. & Webb. Ithaca, May; Albany, May.**EUPELECOTHECA** Townsend**E. celer** Towns. Niagara Falls, Je; Ithaca (Walt, as *rufilabris* Wulp); **SI** (*Bs*); **LI**: Pennequid Barrens (Beq).**EXORISTOIDES** Coquillett**E. slossonae** Coq. (*Exorista spinipennis* Coq.). Slaterville, Aug, *West*; **SI**, *Bs* (Ald); **LI**: Baiting Hollow, Aug, *Huck*.**HOMALACTIA** Townsend**H. harringtoni** Coq. Ithaca, May (Joh).**DORYPHOROPHAGA** Townsend**D. aberrans** Towns. **LI**: Baiting Hollow, Je-Sep, *Huck*; Wading R., Sep, *Bs* (Ald).**D. dorsalis** Coq. **SI**, *Bs* (Ald).**D. doryphorae** Rly. Buffalo, Sep, Hamburg, Oct (MCV); **LI**: Wading R., Sep, *Bs* (Ald); Baiting Hollow, Sep, *Huck*.**FRONTINA** Meigen**F. aletiae** Riley. Canandaigua L., Aug; NYC (Beq); **SI**, Sep (*Bs*); **LI**: Southampton, Jl, *Huck*; Baiting Hollow, Aug, Wading R., Aug, *Huck*.**F. ancilla** Wlk. **LI**: Sands Pt., *Bs* (Ald).**F. archippivora** Will. Ithaca, Je-Jl, reared by C.L.Liu from *Malacosoma americana* (Ald).**F. dubia** Wlk. **LI**: Baiting Hollow, Jl, *Huck*.

**F. frenchii** Will. Wells, Jl, *Yg*; Ithaca, Je-Aug; Slingerlands, Je; Albany, Feb, Ap; Kingston, Mar; **SI**, Sep (Bs Coll.); **LI**: Fishers I., Feb; Westbury, Je; Baiting Hollow, Jl-Sep, *Huck*; Wading R., Aug, *Huck*.

?**F. spectabilis** Ald. **LI**: Wading R., Aug, *Huck*.

**F. violenta** Wlk. **LI**: Baiting Hollow, Jl-Sep, *Huck*; Wading R., Aug, *Huck*.

#### MYRSINA Robineau-Desvoidy

**M. tenthredinidarum** Towns. (*Masicera exilis* auct.). Ithaca, Jl; Owego, Jl, *West* (Ald).

#### EUMASICERA Townsend

**E. sternalis** Coq. Boston, Aug (MCV); Ithaca (Will); **SI**: Richmond, Jl, *Bs* (Ald).

#### STURMIA Robineau-Desvoidy

**S. fraudulenta** Wulp. **SI** (Beq).

**S. nigrita** Towns. Ithaca, Jl.

**S. phyciodis** Coq. Ithaca, Jl, *West* (Ald).

#### PHRYNOLYDELLA Townsend

**P. eufitchiae** Towns. Hamburg, Je (MCV); Ringwood, Jl (Ald).

#### PARAPHOROCERA Brauer and Bergenstamm

**P. myoidaea** Desv. (*Andrina radialis* Towns.). Rye, Aug, *Bird*.

#### MASICERA Meigen

(*Ceromasia* Rondani)

**M. albifacies** Towns. Niagara Falls, Sep (MCV, as *albifrons* Towns., sic!); Ithaca, Aug.

**M. arator** Ald. Ithaca, Jl, reared by C.L.Liu from *Malacosoma americana*.

**M. celer** Coq. **LI**: Wading R., Aug.

**M. senilis** Meig. Rye, *Bird* (Beq); **LI**: Sands Pt., Je (Bs); Long Beach (Beq).

#### LYDELLA Robineau-Desvoidy

**L. lathamii** Curran. **LI**: Greenport.

#### PARACHAETA Coquillett

**P. fusca** Towns. (*bicolor* of Coq. not Macq.; *inermis* of Coq. not Big.). Ithaca, Jl, *West* (Ald); NYC (Coq).

#### BLEPHARIPEZA Macquart

**B. adusta** Lw. Erie Co, Je-Aug (MCV); Ithaca; Freeville, Jl; Onteora Mt., *How* (Ald&Greene); Ramapo, *Ds* (Ald); Mooers, Sep, *Not* (Lutz).



- B. leucophrys** Wied. Keene Val. (Beq); Wells, May, J1, *Yg*; Paradox L., J1, *Ds* (Ald); North Cr., J1, *Fbs*; Ithaca, Ap-Aug; McLean, May-Sep; L. George, Sep, *Leon*; Karner, Ap; Schodack, Ap; Olivera (Beq); Ramapo, Mar, *Ds* (Ald); **SI**, Mar-Sep, *Ds*, *Bs*; **LI**: Sands Pt., Sep (Bs Coll.); Wading R. (Bs Coll.); Baiting Hollow, May, Aug-Sep, *Huck*.
- B. rufescens** Towns. "NY". Probably not distinct from *adusta* Lw. (West).

#### WINTHEMIA Robineau-Desvoidy

- W. fumiferanae** Tothill. Rock City, Je; Ithaca, May-J1; McLean, J1; Ringwood, Je; Voorheesville, Aug, *Leon*; **LI**: Southampton, J1, *Huck*; Wading R., Aug, *Huck*. Placed by characters in Tothill's key (1912). It is not certain that these are truly diagnostic. (West.)
- W. quadripustulata** Fab. (auct.; more than one species is probably involved here). In this sense *W. quadripustulata* is the most abundant of all our species of Tachinidae. I have before me several hundred specimens from all parts of the State. Dates of collection range from May to October, falling mostly in J1-Sep. (West.)

#### PARADIDYMA Brauer and Bergenstamm

- P. singularis** Towns. McLean, J1; Shelving Rock Mt., L. George, Sep; **SI**, J1, Oct, *Bs* (Ald); **LI**: Sea Cliff (Bks).

#### METACHAETA Coquillett

- M. atra** Coq. (*helymus* Wlk. and auct.). L. Placid, Aug; Ithaca and vic., Ap-J1; McLean, Aug, *Sib*; Owego, May, *West*; Slingerlands, J1; Van. Cort. Pk., J1; **LI**: Wading R., Sep (Bs Coll.).

#### ACEMYIA Robineau-Desvoidy

- A. dentata** Coq. Ithaca, May; McLean, May; Owego, May, *West*; Middleton, J1; **LI**: Riverhead, Sep.

#### PSEUDOAETHA Coquillett

- P. argentifrons** Coq. St. Huberts, Aug.

#### EUTHERA Loew

- E. tentatrix** Lw. "NY" (Lw); Gowanda, Je (MCV).

#### EXORISTA Meigen

(*Tachina* auct.)

- E. larvarum** L. (*Tachina mella* Wlk., *T. utilis* Towns.). Keene Val., J1; Glens Falls, Je; Niagara Falls, Je-J1; Alder Cr., Sep; Ithaca, Je-Aug, reared by C. L. Liu from *Malacosoma americana*; McLean, Aug, *Sib*; Albany, J1; Hoversville, Je, *Leon*; Hudson R. Val.; White Plains (Beq); Southfields (Beq); **SI** (Bs Coll.); **LI**: Baiting Hollow, May-Sep, *Huck*; Wading R., Aug, *Huck*; Selden, J1, *Huck*.

**CHAETOTACHINA** Brauer and Bergenstamm

- C. simulans** Meig. (*Tachina rustica* auct.). Axton, Je, *M&H*; Saranac L., Aug-Sep, *Ds* (Ald); Mt. Whiteface, 2000-4000 ft., Aug; Mt. McIntyre, *Jl*; Northampton, Je; Wells, *Jl*; Denmark, May; Rainbow L., Je; Deansboro, Je; Ithaca and vic., May-Aug; McLean, *Jl*, Sep; Owego, *Jl*-Aug, *West*; L. Tackawasick, Je; W. Nyack, *Jl* (*Bs*); Olivera, Je, *Ds*; White Plains (Beq); **LI**: Flushing (Beq).

**TACHINOMYIA** Townsend

- T. robusta** Towns. Potsdam; Rock City, Je, *Ds*; Ithaca, Ap-May; Ringwood, Je, *West*; McLean, Ap, *Kngt*; Thacher Pk., Albany Co.; Karner, Ap-May; Clinton Hgts., Ap; E. Schodack, Ap; Poughkeepsie, May; Bronxville, Mar, *Ds* (Ald); West Pt., Je; **SI**, *Bs* (Ald); **LI**: Pennequid Barrens (Beq); Wyandanch (Beq); Baiting Hollow, May, *Huck*; Selden, *Jl*, *Huck*; Gardiners L.; East Hampton, May; Montauk, May; Riverhead, Je, *Huck*.

**NEOFISCHERIA** Townsend

- N. flava** Towns. **SI**: Watchogue, Sep (*Bs*).

**PHORICHAETA** Rondani

- P. sequax** Will. L. Placid, Aug, *MCV*; near Mt. McIntyre, *Jl*, *West*; Ithaca, May; McLean, May; Trenton Falls, Je.  
**P. vernata** West (*Wagneria vernata* West). Ithaca, May-Je; **LI**: Baiting Hollow, May, *Huck*.

**EUTRICHOGENA** Townsend

- E. setipennis** Coq. Upper Ausable L. (Beq).

**GONIA** Meigén

- G. aldrichi** Toth. Karner, May (Curr); Oswego (Toth).  
**G. breviforceps** Toth. Potsdam (Curr).  
**G. confusa** Curr. Ithaca, Albany, Ap (Curr).  
**G. exul** Will. "NY" (Will).  
**G. frontosa** Say (*capitata* DeG. auct., in part). Wells, Ap; Black Br., Je, *Cy*, *Fbs*; Fulton Co; Colden (MCV); Hamburg, May (MCV); Ithaca, Ap-May; Ringwood, Je, *West*; Caroline to Harford, Je; Albany, Ap-May; Albany Co, May, *Leon*; Karner, May; Clinton Hgts., Ap; Thompson, May, *Leon*; Wappingers Falls, Je, *Leon*; W. Nyack (Bs Coll.); **SI**, Mar-May, *Bs*, *Ds*; **LI**: Baiting Hollow, Je, *Huck*; Flushing (Beq); Long Beach, Central Pk. (Beq). I have credited to *frontosa* the majority of manuscript records pertaining to *capitata* DeG. (West).  
**G. longipulvilli** Toth. Ithaca, Ap (Curr).  
**G. sagax** Towns. Honeoye Falls, May; Ithaca and vic., May; Albany, May; Thacher Pk., May.  
**G. sequax** Will. Wells, Aug, *Yg* (Curr).

(Subgenus **CNEPHALOGONIA** Townsend)

- G. distincta** Sm. Ithaca, Ap; Owego, *Jl*, *West*; Karner, Ap; E. Schodack, Ap; **LI**: Baiting Hollow, Ap-May, *Huck*.

## SPALLANZANIA Robineau-Desvoidy

- S. hesperidarum* Will. Wells, Jl-Aug, *Yg*; Keene Val., Aug; Ithaca, Jl; Karner, Jl; **SI**, Jl (Bs Coll.); **LI**: Riverhead, Je; Baiting Hollow, Sep, *Huck*.  
*S. obsoleta* Towns. Niagara Falls, Je (Towns).

## EUGAEDIOPSIS Townsend

- E. ocellaris* Coq. L. Placid, Aug; Ithaca, Je-Aug; McLean, Aug-Sep, *Sib*; Owego, Jl, *West*.

## CHAETOGAEDIA Brauer and Bergenstamm

- C. analis* Wulp. Newcomb, Jl; Ithaca, Jl-Sep; McLean, Aug-Sep, *Sib*; Owego, Jl, *West*; Albany, Sep; Watervliet Reservoir, Aug, *Leon*; Nassau, Sep; **LI**: Baiting Hollow, Sep, *Huck*.

## DICHOCERA Williston

- D. lyrata* Will. Ithaca, Sep.  
*D. orientalis* Coq. Juanita I., L. George, Sep, *Leon* (Ald).

## TRICHOPIPHORA Macquart

- T. ruficauda* Wulp. Ithaca, Jl; Owego, Jl; Albany, Je-Aug; Poughkeepsie, Jl; Ft. Montgomery, *Schott* (Beq); **SI**, Je-Sep, *Bs* (Ald); **LI**: Cold Sp. Harb. (Beq).

## CUPHOCERA Macquart

- C. (Trichophora) stricklandi* Curr. (possibly *C. furcata* Wulp and auct.). Poughkeepsie, Je (Curr); **LI**: Yaphank, Jl, *Ds* (Curr).

## DEOPALPUS Townsend

- D. hirsutus* Towns. **LI**: Yaphank (Beq).

PELETERIA Robineau-Desvoidy<sup>102</sup>

- P. anaxias* Wlk. Axton, Je; near Saranac L., Jl, *West*; L. Placid, Aug; Newport, May, *Yg*; Old Forge, Jl; Erie Co, May, Sep, as *robusta* (MCV); Ithaca and vic., Jl-Oct; McLean, Je, Aug-Sep, *Sib*; Owego, Sep, *West*; Ballston L., Aug, *Leon*; Pearl Pt., L. George, Aug; Karner, May-Je; Rensselaer, May, *Leon*; Albany, May; Poughkeepsie, May; E. Jewett, Aug, *Ds*, as *robusta* (Ald); Oliverea, as *robusta* (Beq); **SI**, May, as *robusta* (Bs Coll.); **LI**: Baiting Hollow, Je-Sep, *Huck*; Sands Pt., Sep, as *robusta* (Bs Coll.); Cold Sp. Harb., Pennequin Barrens, as *robusta* (Beq). I have credited to *anaxias* all the manuscript records pertaining to *P. robusta* auct. Probably some should be referred to *confusa* Curr., but I am unable to decide which, not having seen Van Duzee's or Bequaert's material. (West.)  
*P. confusa* Curr. Keene Val., Aug; Elizabethtown, Aug; Wells, Je, *Yg*; Adirondack Lodge, Jl, *Bish*; Saranac L., Sep, *Ds*; N. Fair Haven, Aug; Walton, Sep,

<sup>102</sup> All Cornell material determined by C. H. Curran.

*West*; Ithaca, J1-Sep; Ringwood, J1, Oct; McLean, J1-Sep, *Sib*; Owego, Aug, *West*; Pearl Pt., L. George, Aug, Shelving Rock, Sep, *Leon*; Karner, Oct; **SI**, Sep, *Ds*.

- P. iterans** Wlk. Axton, Je, *M&H*; Keene Val., J1; Saranac Inn; Wells, J1, Lowville, J1, *West*; Long L., Aug; North Cr., J1, *Fbs*; Mt. Skylight (Beq); Gloversville, J1; Ground I., Sep (MCV); Hamburg, Oct (MCV); Cattaraugus, Sep; Ithaca, Aug; McLean, J1-Sep; Mud Cr., Je; **LI**: Gardiners I. (Beq).

#### ARCHYTAS Jaennicke

- A. analis** Fab. (*amethystina* Macq. of Curran's determination). Wells, J1-Aug, *Yg*; Long L., *Ds*; L. Pleasant, J1; Niagara Falls, Je; Erie Co, Je-Sep (MCV); Cattaraugus, Sep; North Cr., J1, *Fbs*; N. Fair Haven, J1, *West*; Ithaca, Je-Sep; Lake Ridge, Aug; McLean, J1-Sep; Owego, J1, *West*; Michigan Hollow, Aug; Taughannock Falls, J1; Watervliet Reservoir, Aug, *Leon*; Kinderhook, Sep; Ballston L., Aug; E. Jewett, Aug, *Ds*; Big Ind. Val., Oliverea (Beq); Onteora Mt., Sep, *How* (Ald&Greene); Poughkeepsie, Je; **SI**, J1-Aug (Bs Coll.); **LI**: Wading R., Sep (Bs Coll.); Canarsie (Beq).
- A. aterrima** Desv. Piseco L., Aug; Erie Co, J1-Sep (MCV); ?Ithaca, May; Pine I., Je, *Ds* (Ald); White Plains (Beq); NYC (Beq); **SI**, Je-Sep (Bs Coll.); **LI**: Farmingdale, Aug, *Ds* (Ald); Wading R., Sep, *Ds* (Ald).
- A. hystrix** Fab. Ithaca, Aug, *And* (Snn Coll.); **SI**, Je, Aug (Bs Coll.); **LI**: Flushing, Manhattan Beach, Orient (Beq).
- A. lateralis** Macq. Manlius; Ithaca, Aug.

#### FABRICIELLA Bezzi<sup>103</sup>

- F. algens** Wied. L. Tear (Beq); Long L., *Ds* (Ald); Mt. Marcy (Beq); Oswego; Old Forge, J1; Speculator, Aug; Severance, J1, *Bks*; Mt. Whiteface., 2000-4000 ft., Aug; Olcott, J1 (Dt); Ithaca, Je-Aug; Big Ind. Val. (Beq); E. Jewett, Aug, *Ds* (West); Onteora Mt., Oct, *How* (Ald & Greene).
- F. dakotensis** Towns. Keene Val., Aug; McLean, Aug, *Sib* (West); Albany, J1; **LI**: Farmingdale, Je, *Bs* (Ald); Baiting Hollow, Sep, *Huck*; Riverhead, Aug-Sep.
- F. dakotensis** var. *orientalis* Towns. (probably *Echinomyia florum* auct.). Axton, Je; L. Placid, Aug (Beq); Hamburg, Aug (MCV); Juanita I., Aug; Shelving Rock, L. George, Sep, *Leon*; DeBruce, Sep, *Ds* (Dru); **LI**: Baiting Hollow, Je, Sep, *Huck*.
- F. hispida** Toth. Summit of Mt. McIntyre, J1, *Bronson*, *Chrisp*.
- F. montana** Towns. L. Placid, Aug; Mt. Marcy, 5000 ft., J1; Old Forge, J1.
- F. piceifrons** Towns. Keene Val., *Not* (Beq).

#### EPALPUS Rondani

- E. signiferus** Wlk. Axton, Je, *M&H*; Old Forge, Je-J1; Adirondack Lodge, Je; Labrador L., Cortland Co, Je; Bath, May; Gowanda, Je (MCV); Ithaca, Ap-Je; L. George, J1; Karner, Ap; Albany, Je; Southfields, Je, *Bs* (Ald); E. Jewett, Ap, *Ds* (Ald); **LI**: West Hills, Ap, *Ds* (Ald); Huntington, Wyandanch (Beq); Baiting Hollow, Ap, *Huck*; Yaphank, May, *Ds*; Half Way Hollow Hills, May, *Ds* (Cress).

<sup>103</sup> Cornell material determined by C. H. Curran.

**BOMBYLIOPSIS** Townsend

- B. abrupta** Wied. New Russia, Aug, *Bdy*; Big Moose, Aug, *Yg*; Gloversville, Je; N. Fair Haven, Aug; Niagara Falls, Sep (MCV); Erie Co, Je-Aug (MCV); Little Falls, Jl; Canandaigua L.; Ithaca, Je-Aug; McLean, Aug-Sep, *Sib*; Albany; Wappingers Falls; Olivera, Sep, *Ds* (Ald); Onteora Mt., Aug, *How* (Ald & Greene); West Pt., Sep, *Ds*; **SI**, Je-Jl, Sep, *Ds*.

**JURINIA** Robineau-Desvoidy

- J. decisa** Wlk. (*Echinomyia decisa* auct.). Keene Val., Long L., Aug; Erie Co, Jl-Sep (MCV); Pike; Ft. Plain, Oct; McLean, Aug-Sep, *Sib*.

FAMILY **MEGAPROSOPIDAE**

Compiled by L. S. WEST

**MICROPTHALMA** Macquart

- M. disjuncta** Wied. E. Aurora, Sep (MCV); Little Valley, Aug (MCV); Olivera, Je, *Ds*; **SI**, Je-Jl, *Ds*; **LI**: Baiting Hollow, Je-Aug, *Huck*; Wading R., Aug, Selden, Jl, *Huck*; Wyandanch, Aug, Central Pk., Aug, *Ds*.
- M. michiganensis** Towns. (*M. phyllophagae* Curr. is probably a synonym.)
- M. phyllophagae** Curr. Keene Val., Jl-Aug; Saranac Inn, Aug; McLean, Aug, *Sib*.

FAMILY **DEXIIDAE**

Compiled by L. S. WEST

**RHAMPHINA** Macquart

- R. leonardi** West. Shelving Rock, L. George, Sep, *Leon*.

**MOCHLOSOMA** Brauer and Bergenstamm

- M. valida** B. & B. Keene Val., Jl.

**RHYNCHODEXIA** Bigot

- R. confusa** West. L. Placid; Keene Val.; Wells; Duck L., near Conquest; Ithaca; Freeville; McLean; L. George; Albany; Nassau; **LI**: Selden; Baiting Hollow; Riverhead; Fire I. Jl-Sep.
- R. elevata** West. **LI**: Riverhead, Aug, *Huck*.
- R. translucipennis** West. Ithaca, Jl, *West*; McLean, Jl, *West*.

**PARAPROSENA** Brauer and Bergenstamm

- P. apicalis** Desv. North Cr., Aug; Ithaca and vic., Jl-Aug. Reared from tabanid larva (Joh).

**DEXIA** Meigen(*Zelia* Robineau-Desvoidy)

- D. vertebrata** Say. S. Wales, Jl (MCV); McLean, Jl. *VTPhillips*; **SI**, Jl, *Ds*; **LI**: Yaphank, Sep, *Ds*.



## ATELOGLOSSA Coquillett

- A. calyptrata* West. **LI**: Selden, Aug.  
*A. glabra* West. Wells, Jl, *Yg*.

## PTILODEXIA Brauer and Bergenstamm

- P. abdominalis* Desv. **LI**: Wading R., Aug, *Ds* (Jn).  
*P. harpasa* Wlk. Saranac Inn, Jl; Old Forge, Jl; Keene Val., Jl; Mt. Jo, Je, *West*;  
 L. Tackawasick, Je, *Leon*; Van Cort. Pk. (Beq); **SI**, Je, *Ds*; **LI**: Cold Sp.  
 Harb., Sep; Orient (Beq).  
*P. hucketti* West. Albany, Aug, *Leon*; **LI**: Yaphank, Jl, *Ds*; Fire I., Sep, *Ds*;  
 Riverhead, Jl-Aug, *Huck*.  
*P. incerta* West. West Pt., Sep, *Ds*; **SI**, Je, *Ds*; **LI**: Riverhead, Je, Aug, *Huck*;  
 Southampton, Jl, Wading R., Aug, *Huck*.  
*P. leucoptera* West. **LI**: Riverhead, Sep, *Huck*.  
*P. minor* West. North Cr., Aug; Duck L., near Conquest, Aug, *West*.  
*P. neotibialis* West. Albany, Jl; West Pt., Sep, *Robn*; **LI**: Fire I., Sep, *Ds*;  
 Riverhead, Jl, *Huck*, Sep; Selden, Aug-Sep, *Ds*.  
*P. obscura* West. **LI**: Yaphank, Jl, Wading R., Je, *Ds*.  
*P. proxima* West. **LI**: Riverhead, Aug, *Ds*.

## MYIOCERA Robineau-Desvoidy

- M. amicabilis* West. Ithaca, Jl, *FCWixom*.  
*M. compacta* West. Ringwood, Jl, *West*.  
*M. protrudens* West. Ringwood, Jl, *Leon*.

## PHASIOPS Coquillett

- P. flava* Coq. Caldwell (Coq); **SI**, *Ds*.

## CHOLOMYIA Bigot

- C. inaequipes* Big. Ithaca, Jl (Joh); **LI**: Richmond Hill, Jl (Jn); Cold Sp. Harb.,  
 May.

## SARDIOCERA Brauer and Bergenstamm

- S. valida* Wied. (*Theresia tandrec* Desv.). Ithaca, Jl; Kinderhook, Sep, *Bish*;  
 Van Cort. Pk. (Bs); **SI**, Aug, *Bs*, *Ds*; **LI**: Yaphank, Jl, *Ds*; Montauk, Aug,  
 Aqueduct, Jl, Wading R., Aug, *Ds*; Southampton, Jl, *Huck*.

## THELAIRA Robineau-Desvoidy

- T. nigripes* Fab. (*leucozona* Panz.). Deansboro, Je, *West*; Naples, Jl; Erie Co.,  
 Je-Sep (MCV); Honeoye Falls, Je; Ithaca, Je-Aug; Coy Glen, Je; Taugh-  
 hannock Falls, Jl; McLean, Jl, Sep, *Sib*; Poughkeepsie, May-Je; **SI**, Aug,  
*Ds*; **LI**: Selden, Jl; Montauk, Aug, *Ds*.

## EUTHERESIA Townsend

*E. satisfacta* West. SI, Aug, *Ds*.

*E. sibleyi* West. Mt. McIntyre, Je, JI, *Leon*, *Bish*, *Sib*.

## OPSODEXIA Townsend

*O. bicolor* Coq. Corinth, Je, *Yg*; Pearl Pt., L. George, Aug; Kaaterskill, Aug (Jn); LI: Cold Sp. Harb., Sep; Wading R., Riverhead, Aug, *Huck*.

## CHAETONA Van der Wulp

*C. addenda* West. Renwick (Stewart) Pk., Ithaca, Aug, *West*.

*C. americana* Big. Ithaca (Will).

*C. flavipennis* Coq. Niagara Falls, Je (Jn).

*C. ordinaria* West. Near Mt. McIntyre, JI, *West*.

## ARCTOPHYTO Townsend

*A. gillettei* Towns. Gowanda, Aug, as *Paraphyto* (MCV).

## SPATHIDEXIA Townsend

*S. clemonsi* Towns. Ithaca, JI (Ald).

*S. dunningi* Coq. Potsdam, JI; Ithaca, May; McLean, Je.

## ESTHERIA Robineau-Desvoidy

*E. tibialis* Desv. Erie Co, Aug-Sep (MCV); LI: Fire L., Sep, *Ds* (Jn). I regard these records as rather uncertain, since *Ptilodexia harpasa* Wlk. and *Rhyncho-dexia confusa* West have both been confused with *E. tibialis* in the past. I do not doubt that the species occurs in the State, but I have not myself seen any NY specimens. (West.)

## DINERA Robineau-Desvoidy

*D. futilis* West. Rochester, Je-JI, *Leon*; Ithaca, Je, Aug, *Sargent*; Voorheesville, Je, *Leon*; LI: Baiting Hollow, Je-Aug, Wading R., Aug, *Huck*.

## MELANOPHORA Meigen

*M. roralis* L. Rochester, Oct, Buffalo, Je-JI (MCV); Niagara Falls, Je (Jn); Ithaca, Je-JI, Sep-Oct; Albany, Je, Aug-Sep, *Yg*; LI: Southold, Sep, *Ds*; Baiting Hollow, Aug, Selden, JI, *Huck*; Sea Cliff; Flatbush, Hempstead (Beq).

## FAMILY SARCOPHAGIDAE

## SUBFAMILY AMOBIINAE

Compiled by L. S. WEST

## AMOBIA Robineau-Desvoidy

*A. aurata* Coq. Ithaca, Owego, JI, *West*.

*A. confundens* Towns. Lancaster, May (MCV); Ithaca, JI, *West* (Ald).

**BRACHYCOMA** Rondani

**B. apicalis** Coq. Black Mt., L. George, Sep (Ald).

**OPPIOPSIS** Townsend

**O. sheldoni** Coq. **SI**, Je, *Ds* (Ald).

SUBFAMILY **MILTOGRAMMINAE**

Compiled by L. S. WEST

**METOPIA** Meigen

**M. campestris** Fall. Axton; Lowville; Broadalbin; N. Fair Haven; Upper Ausable L. (Beq); Duck L., near Conquest; Ithaca; Slaterville; McLean; Ringwood; Trenton Falls; **LI**: Sands Pt. (Bs Coll.); Cold Sp. Harb. (Bs Coll.); Baiting Hollow. May-Sep.

**M. lateralis** Macq. Ithaca, Owego, Slaterville, Aug. *West*; **LI**: Wading R., Baiting Hollow, Aug, *Huck*.

**M. leucocephala** Rossi. Wells; Ausable R.; Broadalbin; Saranac L.; Axton; Upper Ausable L. (Beq); N. Fair Haven; Niagara Falls; Buffalo, Lancaster (MCV); Ithaca; Slaterville; McLean; Ringwood; Owego; Lake Ridge; Albany; Middletown; **SI**; **LI**: Pennequid Barrens (Beq); Wading R.; Baiting Hollow; Riverhead; Jamaica. May-Sep, mostly JI-Aug.

**M. tessellata** Allen. Ithaca, JI (Allen).

**EUARABA** Townsend

**E. grisea** Desv. N. Fair Haven, JI, *West*; Ithaca, Je-JI; Karner, Je; Rensselaer, May; **LI**: Baiting Hollow, May, Sep, *Huck*.

**OPSIDIA** Coquillett

**O. gonioides** Coq. **SI**, Je, Aug, *Ds*; **LI**: Long Beach (Beq); Selden, Aug, Riverhead, JI, *Huck*.

**PROSINELLA** Robineau-Desvoidy

**P. fulvicornis** Coq. Near Saranac L., JI, *West*; Batavia, Mar; Ft. Erie, JI (MCV); Ithaca, Je-Aug; L. Tackawasick, Je; Owego, Aug; **SI**, Sep, *Bs* (Ald); **LI**: Riverhead, Je; Long Beach, Pennequid Barrens (Beq).

**GYMNOPROSOPA** Townsend

**G. polita** Towns. Ithaca, Aug; Middletown, JI, *Spooner*; **SI**, Je, *Ds* (West), *Bs* (Ald).

**HILARELLA** Rondani

**H. hilarella** Zett. (*siphonina* Zett.). **LI**: Wading R., Aug, Baiting Hollow, Sep, *Huck*.

**OESTROHILARELLA** Townsend

**O. aristalis** Coq. Oswego (Allen).

**PACHYOPHTHALMUS** Brauer and Bergenstamm

- P. distortus** Allen. Ithaca, May, *Sun* (Allen).  
**P. floridensis** Towns. **SI**, *Ds*; **LI**: Baiting Hollow, Je, Sep, *Huck*; Wading R., Sep, *Ds* (Beq).  
**P. signatus** Meig. Speculator, Je, *Yg*; Niagara Falls, Je; Buffalo, Je (MCV); Ithaca, Jl-Aug, Owego, Jl, Ringwood, Je, *West*; Karner, Je; **SI**: New Dorp, Je, *Bs* (Ald); **LI**: Baiting Hollow, May-Sep, Wading R., Aug, *Huck*; Montauk, May; Gardiners I. (Beq).

**SENOTAINIA** Macquart

- S. rufiventris** Macq. L. Charlotte, Je; L. Tackawasick, Je; Rhinebeck, Jl, *Cy*; **SI**: Tottenville, Je, *Bs* (Ald); **LI**: Baiting Hollow, Je, *Huck*.  
**S. trilineata** Wulp. Keene Val.; Mineola; Saranac L.; Ausable R., West Branch; N. Fair Haven; Duck L., near Conquest; Ithaca; Slaterville; Owego; Nassau; Poughkeepsie; W. Nyack (Bs Coll.); **SI**: Ft. Wadsworth, Watchogue, Arlington (Bs Coll.); **LI**: Gardiners I. (Beq); Sands Pt., Wading R. (Bs Coll.); Baiting Hollow, *Huck*. May-Aug; most abundant in Jl.

**TAXIGRAMMA** Perris

- T. heteroneura** Meig. (*nasoni* Coq.). Peru, Je.

SUBFAMILY **SARCOPHAGINAE****WOHLFAHRTIA** Brauer and Bergenstamm

- W. vigil** Wlk. Syracuse, *Blkm* (Hine); Rochester Jct., *Leon* (Ald); Ludlowville; Ithaca, Jl (Joh).

**METOPOSARCOPHAGA** Townsend

- M. pachyprocta** Park. (*larga* Ald.). **LI**: Oak I. (Ald); Sands Pt., Jl (Bs); Long Beach, Je, *Bs* (Ald).

**CHAETORAVINIA** Townsend

- C. latesetosa** Park. (*Sarcophaga*). Ithaca, Je (Park); **LI**: Cold Sp. Harb., Jl.  
**C. quadrisetosa** Coq. Yonkers (Beq); **SI**: Clove Val., *Bs* (Ald).

**HELICOBIA** Coquillett

- H. helicis** Towns. Keene Val.; Buffalo, Jl; Syracuse, *Blkm* (Hine); Ithaca, May-Aug (Park); **LI**: Sea Cliff.

**LACCHOPROSOPA** Curran

- L. avium** Curr. Ithaca, Mar (Curr).

**SARCOPHAGA** Meigen

- S. aldrichi** Park. Axton, Je (Park); Mt. Whiteface, Jl 13, *Ds* (Jn).  
**S. assidua** Wlk. L. Erie (Park); Lancaster, May; Hamburg, Oct (MCV); **SI**, Sep 15, *Ds* (Ald); Ft. Wadsworth, Je, *Bs* (Ald).

- S. bisetosa* Park. Ithaca, May-Sep (Park); Albany; White L., Sep, *Zab*; Greene Co.
- S. bullata* Park. Ithaca, Jl (Park); Nassau; Nyack; **SI**: Arrochar, Jl, *Bs* (Ald); **LI**: Cold Sp. Harb., Jl (Ald).
- S. cimbicis* Towns. Erie Co, May, Aug (MCV); Ithaca and vic. (Park); Albany; Carmel; W. Nyack (Beq); NYC; **SI**: Watchogue, Sep, *Bs* (Ald); Ft. Wadsworth, Oct, *Bs* (Ald).
- S. cingarus* Ald. Ithaca, Jl, Aug (Park); Greene Co (Ald).
- S. cooleyi* Ald. Ithaca, May, *Rly* (Bishopp).
- S. communis* Park. L. Tear (Beq); Potsdam; Unionport; Buffalo, May-Sep (Park); Ithaca and vic.; Mosholu; **SI**: New Brighton, May, *Bs* (Ald); Ft. Wadsworth, Je, Sep, *Bs* (Ald); **LI**: Flatbush; Sea Cliff; Cold Sp. Harb.; Gardiners I. (Beq); Wyandanch, *Eng* (Beq); Brooklyn (Beq).
- S. dalmatina* Schin. Buffalo, Oct (MCV); Albany (Park); NYC, Je; **LI**: Cold Sp. Harb.
- S. dux exuberans* Pand. Ithaca, Je (Park).
- S. dux sarracenioides* Ald. Axton, Je; Ithaca, Je, Jl (Park); NYC; **SI**, *Ds* (Beq); **LI**: Cold Sp. Harb.
- S. falculata* Pand. Ithaca, Aug, Sep (Park); Nyack.
- S. fulvipes dissidia* Park. Niagara Falls, *Jn* (Park).
- S. haemorrhoidalis* Fall. Potsdam; Buffalo, Lancaster, Aug (MCV); Ithaca, Je, Jl, Aug (Park); Albany (Jn); **SI**: Watchogue, Jl, *Bs* (Ald); Ft. Wadsworth, Sep, *Bs* (Ald); **LI**: Flatbush; Cold Sp. Harb., Je, Jl (Park); Sands Pt., Aug, *Bs* (Ald).
- S. houghi* Ald. Buffalo, Je (MCV); NYC (Ald).
- S. hunteri* Hough. **SI**: Ft. Wadsworth, Jl, *Bs* (Ald); New Dorp, *Bs* (Ald).
- S. johnsoni* Ald. W. Nyack (Beq); **LI**: Long Beach, Je, *Bs* (Ald).
- S. latisterna* Park. Grand I., Aug (MCV); Ithaca, May-Jl (Park); Karner; **SI**: Arrochar; Ft. Wadsworth, New Dorp, New Brighton, Watchogue, Richmond, May-Jl (Ald).
- S. niagarana* Park. Niagara Falls, Je 25 (Park).
- S. parallela* Ald. Inwood, Oct, pupa in dead *Helix thyroides*, *Ds* (Ald).
- S. peniculata* Park. L. Tear, Upper Ausable L. (Beq); Olcott, Jl; Erie Co, May-Sep (MCV); Ithaca and vic., Je, Jl (Park); **LI**: Cold Sp. Harb., Jl.
- S. reversa* Ald. Greene Co (Ald); **SI**: New Dorp, *Bs* (Ald); Ft. Wadsworth, Sep, *Bs&Ds* (Ald).
- S. scoparia nearctica* Park. Keene Val.; Hamburg, May (MCV); Cattaraugus, Je-Sep (Park); Ithaca; NYC, Sep, *Bs* (Ald); **SI**: Ft. Wadsworth, Sep, *Bs* (Ald); **LI**: Cold Sp. Harb.; Sea Cliff.
- S. securifera* Vill. Buffalo, Oct; Albany; NYC, *Sturt* (Ald, Beq); **SI**: New Brighton, Jl, *Bs* (Ald); **LI**: Cold Sp. Harb., Je; Flatbush, *Eng* (Beq).
- S. sinuata* Meig. Buffalo, Aug (MCV); Cattaraugus; Ithaca and vic., May-Sep (Park); White Plains (Beq); Kiamesha; Mosholu; **SI**: (Beq); Richmond, Je, *Bs* (Ald); Ft. Wadsworth, Oct, *Bs* (Ald).
- S. spuria* Curr. Ithaca, Mar (Curr).
- S. utilis* Ald. Cattaraugus; Ithaca, Je-Sep (Park); **LI**: Cold Sp. Harb.
- S. yorkii* Park. Niagara Falls.



## FAMILY CALLIPHORIDAE

## SUBFAMILY PHORMIINAE

## COCHLIOMYIA Townsend

- C. (Compsomyia) macellaria* Fab. Buffalo, Oct, *MCV*; Cattaraugus, Sep; Ithaca, Jl (Joh); Albany, Sep; NYC (Beq); **SI** (Beq); **LI**: Riverhead, Flushing (Beq).

## PROTOCALLIPHORA Hough

- P. avium* Snn. & Dobr. Ithaca, *Coutant* (Snn&Dobr).  
*P. splendida* form *splendida* Macq. **SI**: Watchogue, *Bs* (Snn&Dobr).  
*P. splendida* form *sialis* Snn. & Dobr. McLean, *Joh*; Caroline, *And*; Fall Cr., Ithaca (West); **LI**: Farmingdale, *Beq* (Snn&Dobr).

## PHORMIA Robineau-Desvoidy

(*Euphormia* Townsend)

- P. regina* Meig. Essex Co, May-Je; Syracuse, Oct; Buffalo, *MCV*; Ithaca, Ap-Nov (Joh); Ramapo, May 31, *Ds* (Ald); White Plains (Beq); Albany; Nassau, Aug; **SI**: on dead goat, Oct 15, *Ds* (Ald); Ft. Wadsworth, Mar, *Bs* (Ald); Watchogue, Mar, *Bs* (Ald); **LI**: Long Beach (AM); Rockaway Beach; Promised Land, Sep, *Ds* (Ald).

## PROTOPHORMIA Townsend

- P. terrae-novae* Desv. Potsdam; Ithaca, Jl (Joh); Clinton Hgts., Ap; N. Elba, Oct, *Wat* (Ald); Upper Ausable L. (Beq); Slide Mt., Je, *Ds* (Ald); Ft. Montgomery, *Schott* (Beq); **LI**: Aqueduct, *Schott*; Fire I., *Schott* (Beq).

## SUBFAMILY CALLIPHORINAE

## CYNOMYIA Robineau-Desvoidy

- C. cadaverina* Desv. Mt. Whiteface, Jl, *Ds* (Ald); Upper Ausable L. (Beq); Saratoga, Je; Syracuse, Oct (Bishopp); Buffalo, Oct, (*MCV*); Ithaca, Ap-May (Joh); Olivera, Je, *Ds* (Ald); Albany, Je; **SI**: Ft. Wadsworth, Clove Val., etc., Mar-Oct, *Bs&Ds* (Ald); **LI**: Brooklyn, *Ds* (Ald); Flatbush, Flushing (Beq).  
*C. mortuorum* L. L. Tear (Beq).

## CALLIPHORA Robineau-Desvoidy

- C. erythrocephala* Meig. Essex Co, Aug; Niagara Falls, Je; Ithaca, May-Sep (Joh); Albany, Oct; Clinton Hgts., Ap-Je; NYC, Sep, *Bs* (Ald); **SI**, Jl-Aug, on dead goat, Oct 15, *Ds* (Ald); **LI**: Yaphank, Je, *Ds* (Ald).  
*C. viridescens* Desv. Axton, Je; Ithaca, Jl (Joh); Schenectady, Aug; **SI**: Ft. Wadsworth, Mar, *Bs* (Ald).  
*C. vomitoria* L. Mt. Marcy (Beq); Mt. Whiteface (Beq); Honeoye Falls, Je, *Leon*; Ithaca, May (Joh); Olivera, Je 19, *Ds* (Ald); Slide Mt., Je 18, *Ds* (Ald); Albany, May; **SI**: on dead horse, *Ds* (Ald); Ft. Wadsworth, May, Oct, *Bs* (Ald).  
*C. vomitoria nigribarbis* Snn. NY.

**LUCILIA** Robineau-Desvoidy

- L. caesar** L. Adirondacks, Je-Jl; Erie Co, May-Sep, *MCV*; Ithaca, May-Sep (Joh), *Zab* (AM); **SI**: on dead goat, Oct 15, *Ds* (Ald); Ft. Wadsworth, May, Sep, *Bs* (Ald); Richmond, Jl, *Bs* (Ald); **LI**: Riverhead, Wyandanch, Sep.
- L. pilatei** Hough. **SI**: Ft. Wadsworth, Aug, *Bs* (Ald).
- L. sericata** Meig. Niagara Falls, Je (Jn); Ithaca, May-Aug (Joh); Albany, Aug; **SI**, Oct 15, on dead goat, *Ds* (Ald); **LI**: Brooklyn (Beq); Rockaway Beach, Farmingdale, Je.
- L. sylvarum** Meig. Niagara Falls, Je (Jn); Ithaca, May-Jl (Jn).

SUBFAMILY **POLLENIINAE****POLLENIA** Robineau-Desvoidy

- P. rudis** Fab. Common and widely distributed, Jan-Dec.

FAMILY **MUSCIDAE**SUBFAMILY **STOMOXIIDINAE****STOMOXYS** Geoffroy

- S. calcitrans** L. BITING HOUSE-FLY. Common and widely distributed throughout the State, Ap-Nov.

**LYPEROSIA** Rondani

(*Haematobia* auct.)

- L. irritans** L. (*serrata* R.-Desv.). HORN FLY. Generally distributed throughout the State; frequently a serious pest of cattle in the dairy sections.

SUBFAMILY **MUSCINAE****MUSCA** Linnaeus

- M. domestica** L. HOUSE FLY. Common and widely distributed; Ap-Dec.

**CRYPTOLUCILIA** Brauer and Bergenstamm

(*Pseudopyrellia* Girschner)

- C. caesarion** Meig. (*cornicina* auct. not Fab.). DeBruce, Sep 14, *Ds* (Beq); Unionport (AM); Nyack, *Zab*; **SI**, Mar 20, *Ds* (Beq); **LI**: Flatbush, *Zab* (AM).

**PYRELLIA** Zetterstedt

- P. cyanicolor** Zett. Oliveria (Beq); Ft. Montgomery, *Schott* (Beq); Woodhull L., Aug; Ithaca, Feb-Sep (Joh); Fair Haven, Sep; Beaver Kill, Aug (CnJr); E. Jewett, Ap 18, *Ds* (Ald).

**MESEMBRINA** Meigen.

- M. latreille** Desv. (*resplendens* auct. not Wahlb.). Oliveria, Je, *Ds* (Ald).

## MORELLIA Desvoidy

- M. micans** Macq. L. Tear, Upper Ausable, Mt. Skylight (Beq); Lancaster, May-Je (MCV); Rochester Jct., Jl (Leon); Ithaca, Ap-Jl (Joh); Albany, May; Rensselaer, Mar; **SI**: Ft. Wadsworth, Sep, *Bs* (Ald).

## GRAPHOMYIA Desvoidy

- G. maculata** Scop. Adirondacks, Jl-Aug; Tompkins Co (Joh); Mosholu (AM); NYC, Aug, *Bs* (Ald); **SI**: Arrochar, Sep, *Ds* (Ald); Kreischerville, Ft. Wadsworth, Sep, *Bs* (Ald); **LI**: Riverhead.

## MUSCINA Desvoidy

- M. assimilis** Fall. Axton, Je (Joh); Rochester Jct., Je, *Leon*; Ithaca, Ap-Je (Joh); NYC, Aug, *Bs* (Ald).
- M. stabulans** Fall. STABLE FLY. Potsdam, Mar; Niagara Falls, Je (Jn); Erie Co, Je (MCV); Syracuse, *Blkm* (Hine); Ithaca, Ap-Nov (Joh); Albany, Jl; Rye, associate of *Papaipema purpurfascia* in decaying matter in burrows (Bird); Nyack; Ft. Montgomery, May, *Ds* (Ald); **SI**: Ft. Wadsworth, Je, *Bs* (Ald); **LI**: Cold Sp. Harb., Sep, *Bs* (Ald).
- M. pascuorum** L. Ithaca, Sep-Nov, 1922 (Joh); introduced from Europe.

## MYIOSPILA Rondani

- M. meditabunda** Fab. Niagara Falls, Je (Jn); Erie Co, Aug-Oct (MCV); Tompkins Co, Ap-Sep (Joh); Albany, Je; Kenwood, Albany Co, Jl; Bryn Mawr Pk., Sep (AM); Pine L., Je, *Ds* (Ald); **SI**: Ft. Wadsworth, Je-Sep, *Bs* (Ald).

## SUBFAMILY GASTEROPHILINAE

## GASTEROPHILUS Leach

- G. intestinalis** DeG. (*equi* Clark). HORSE BOTFLY. Coopersville, Je; Otto, *Comstock*; Baldwinville, *CPFitch* (Bishopp); Ithaca, *CPFitch* (Bishopp); Utica, Jl, *Wells* (Bishopp); Syracuse, Oct 6, eggs on horses (Bishopp); Cropseyville, Je (NYS Sep 15).
- G. veterinus** (*nasalis* L.). Utica, Jl, *Wells* (Bishopp); Ithaca, *CPFitch* (Bishopp).

FAMILY ANTHOMYIIDAE<sup>104</sup>

## SUBFAMILY PHAONIINAE

## PSEUDOPHAONIA Malloch

- P. orichalcea** Stein. Ithaca, May (Huck).

## BIGOTOMYIA Malloch

- B. houghi** Stein. McLean Bogs, Jl (Huck); **LI**, Sep (Huck).

<sup>104</sup> This list has been checked by Dr. H. C. Hockett. The arrangement of subfamilies and genera, and the synonymy, express his latest opinion of relationships, which differs somewhat from that of Johnson's "*List of the Diptera of New England*."

## DENDROPHAONIA Malloch

*D. hilariformis* Stein. Ithaca, *Joh* (Stein).

*D. querceti* Bouché. Ithaca, Je, reared from a screech owl's nest, *Snn & Dobr* (Huck).

## PHAONIA Robineau-Desvoidy

*P. apicata* Joh. Mt. Marcy (Beq); Ithaca, May-Sep, type; McLean, J1-Sep, *Sib* (Joh).

*P. apta* Stein (*winnemanae* Mall.). Herkimer, Aug (Huck); Ithaca, J1, *Joh* (Stein); McLean Bogs, Sep (Huck).

*P. atlanis* Mall. Peru, Je (Huck); **LI**, Aug-Sep (Huck).

*P. azygos* Mall. "NY" (Mall).

*P. bysia* Wlk. Adirondacks, Je-Sep, Ithaca, Je, **LI**, May-Sep (Huck).

*P. curvipes* Stein. McLean Bogs, Aug (Huck).

*P. deleta* Stein. Ithaca, Je (Ald); McLean, Aug, *Sib* (Joh).

*P. diruta* Stein. Ithaca, May-Aug (Joh).

*P. errans* Stein (*errans* Stein nec Meig.; *tinctipennis* Rond?). Rock City, Je 5 (Joh); Ithaca, May 17 (Joh).

*P. flavibasis* Mall. Ithaca, May (Huck).

*P. fusca* Stein. Ithaca, May, **LI**, Aug (Huck).

*P. harti* Mall. Bryn Mawr Pk., Sep (Huck).

*P. laticornis* Mall. Adirondacks, Aug, **LI**, Ap-May (Huck).

*P. morrisoni* Mall. Adirondacks, Aug (Huck).

*P. nigricans* Joh. (*nervosa* Stein, *cayugae* Joh.). Ithaca, May-Aug (Joh); McLean, May, Aug, *Sib* (Joh).

*P. pallicornis* Stein. Greene Co, Aug, *How* (Huck).

*P. pallidula* Coq. **LI**, May (Huck).

*P. prisca* Stein. Ithaca, J1, *Joh* (Stein).

*P. protuberans* Mall. Mt. Marcy, 5300 ft. (Beq), paratype.

*P. pulvillata* Stein. **LI**, Aug (Huck).

*P. rufibasis* Mall. **LI**, Ap (Huck).

*P. serva* Meig. Woodhull L., Aug (Jn); L. Tear (Beq); Honeoye Falls, May, *Leon*; Ithaca, Je (Joh); McLean, May, *Sib* (Joh).

*P. soccata* Wlk. Ithaca, May (Ald).

*P. solitaria* Stein. Ithaca, May (Stein).

*P. subfusca* Mall. Carmel, Aug (Huck).

*P. tipulivora* Mall. Adirondacks, Aug (Huck).

## ALLOEOSTYLUS Schnabl and Dziedzicki

*A. diaphanus* Wied. (*Trichopticus signia* Wlk.). Axton, Je 21 (Joh); Cranberry Cr., Broadalbin, Je (NYS); Upper Ausable L. (Beq); N. Elba, 2000 ft., J1 (Ald); Erie Co, May-Sep (MCV); Little Valley, J1 (MCV); Ithaca, May 19; Catskills; Albany, Je (NYS); Ft. Montgomery, *Schott* (Beq); **LI**: St. Albans, Je.

## TRICHOPTICUS Rondani

- T. conformis** Mall. Old Forge, J1 (NYS).  
**T. infestus** Stein (*latipennis* Mall.). "NY" (Mall); Ithaca, *Joh* (Stein), as *Alloeostylus*.  
**T. innocuus** Zett. Oliverea, Je 21, *Ds* (Ald); Upper Ausable L. (Beq).  
**T. johnsoni** Mall. Adirondacks, J1 (Ald).  
**T. spiniger** Stein. Mt. Marcy, 5300 ft. (Beq); L. Tear (Beq); Speculator (NYS).

## DIALYTA Meigen

- D. flavitibia** Joh. Adirondacks, Aug 17, type; Upper Ausable L. (Beq); McLean, J1, Sep, *Sib* (Joh).

## POGONOMYIA Rondani

- P. flavinervis** Mall. (*nitens* Stein). Niagara Falls, Je (Jn); Lancaster, Je-Aug (MCV); Greene Co, *How* (Ald); Ithaca, Je 7' (Joh).

## SUBFAMILY MYDAEINAE

## MYDAEA Robineau-Desvoidy

- M. brevopilosa** Mall. Adirondacks, J1; Ithaca, Je, **LI**, Ap-May (Huck).  
**M. discimana** Mall. Adirondacks, J1; Ithaca, May-Aug, **LI**, Je-Sep (Huck).  
**M. flavicornis** Coq. "NY" (Coq).  
**M. flavidipalpis** Mall. Ithaca, Je, **LI**, J1-Sep (Huck).  
**M. neglecta** Mall. Adirondacks, J1, Ithaca, Je, **LI**, Ap-Sep (Huck).  
**M. obscura** Stein not Wulp (*nubila* Stein). Ithaca, Je (Ald).  
**M. pagana** Fab. Tompkins Co; Albany, Sep (NYS).  
**M. persimilis** Mall. Albany, May (Huck).  
**M. tincta** Zett. N. Fair Haven, J1, Ithaca, Je (Huck).  
**M. urbana** Meig. Erie Co, Je-Aug (MCV); Ithaca, May-Sep (Joh); McLean, May-Sep, *Sib* (Joh); Poughkeepsie (NYS); **LI**: Central Pk. (Beq).  
**M. winnemanna** Mall. **LI**, Aug-Sep (Huck).

## HELINA Robineau-Desvoidy

(*Spilogaster* Macquart, in part)

- H. consimilata** Mall. Ithaca, J1 (Huck).  
**H. duplicata** Meig. Ithaca, Je (Joh); **LI**: Long Beach (Beq).  
**H. johnsoni** Mall. **LI**, Je (Huck).  
**H. lysinoe** Wlk. (*varia* Stein). Boston, Aug (MCV); Ithaca, May-Sep (Joh); McLean, May, Aug, *Sib* (Joh); Round L., Sep.  
**?H. nigripennis** Zett. Lancaster, Aug (MCV).  
**H. obscurata** Meig. (*nasoni* Mall.). Ithaca, Je-J1 (Huck).  
**H. obscurinervis** Stein. Ithaca, May-J1; **LI**, J1-Sep (Huck).  
**H. obscuripes** Zett. (*cothurnata* Rond.). Ithaca, Je (Joh).



- H. pectinata* Joh. (*biseriata* Stein, *mimetica* Mall.). Upper Ausable L. (Beq); Adirondacks, J1 (Huck); Ithaca, Je 11, type; McLean, Je-J1, *Sib* (Joh).  
*H. procedens* Wlk. (*uniseta* Stein). Elma, Aug 21 (MCV); Ithaca, Je-Aug (Joh).  
*H. rufitibia* Stein. Ithaca (Joh); **SI**, Ap, *Ds* (Ald).  
*H. tinctipennis* Stein. Ithaca (Stein).  
*H. uliginosa* Fall. Ithaca, Mar (Joh); Albany, Sep, *Yg* (NYS).

**SPILARIA** Schnabl

- S. lucorum* Fall. Ithaca, Je (Joh); J1 (Huck); McLean, Je-J1, Sep, *Sib* (Joh); Niverville, Aug (Jn); **LI**, Ap-Sep (Huck).  
*S. marmorata* Zett. N. Fair Haven, J1 (Huck).  
*S. multisetosa* Schnabl. Adirondacks, J1-Sep.

**HEBECNEMA** Schnabl

- H. affinis* Mall. **LI**, Aug (Huck).  
*H. fumosa* Meig. Essex Co, Je (Huck); **LI**, J1-Aug (Huck).  
*H. umbratica* Meig. Saranac Inn, Sep, *Ds* (Ald); Erie Co, Je-Aug (MCV); Tompkins Co, May-Aug (Joh); **SI**, Aug 17, *Ds* (Ald); Ft. Wadsworth, Mar, on Forsythia, *Bs* (Ald).  
*H. vespertina* Fall. Ithaca, Aug (Huck); **LI**, May-Je (Huck).

SUBFAMILY **HYDROTAEINAE****HYDROTAEA** Robineau-Desvoidy

- H. acuta* Stein. Ithaca, Je, J1 (Huck).  
*H. armipes* Fall. Ithaca, May (Huck); **SI**: Watchogue, Je, *Bs* (Ald); Richmond, *Bs* (Ald); **LI**: Farmingdale, Je, *Bs* (Ald).  
*H. comata* Ald. Ithaca, May (Huck).  
*H. cristata* Mall. Adirondacks, J1 (Ald).  
*H. houghi* Mall. McLean, Aug, *Sib* (Joh); Oswego, Je (Coq).  
*H. metatarsata* Stein. **SI**: Richmond, *Bs* (Ald).  
*H. meteorica* Linn. **LI**, May (Huck).  
*H. militaris* Meig. (*impeya* Lw.). Speculator (NYS); Rock City, Je; Tompkins Co, May-Aug (Joh).  
*H. nidicola* Mall. Ithaca, Ap, *Dobr* (Mall).  
*H. occulta* Meig. Ithaca, May, Sep (Joh).  
*H. orbitalis* Ald. Ithaca, Je (Huck).  
*H. tuberculata* Rond. Ithaca (Stein).  
*H. unispinosa* Stein. Ithaca, May 29 (Joh); McLean, May-J1, Sep, *Sib* (Joh).

**OPHYRA** Robineau-Desvoidy

- O. aenescens* Wied. **LI**, J1 (Huck).  
*O. leucostoma* Wied. Saranac L., Sep, *Ds* (Ald); Severance (NYS); Manlius, *HHS*; Ithaca, May-Aug (Joh); McLean, Aug-Sep, *Sib* (Joh); Albany, Je; **LI**: Massapequa, J1, *Bs* (Ald); Southold, Sep 6, *Ds* (Jn); Central Pk., Huntington, Orient (Beq).

## SUBFAMILY FANNIINAE

## FANNIA Robineau-Desvoidy

- F. aerea* Meig. Ithaca, J1 (Huck).  
*F. canicularis* L. Axton, Je; Northville, Je, *Yg* (NYS); Buffalo (MCV);  
 Tompkins Co, May-Aug (Joh); Albany, Mar; **SI**, *Ds* (Ald).  
*F. carbonaria* Meig. (*corvina* Verr.). Tompkins Co, Je (Joh).  
*F. fuscata* Fall. (*tetracantha* Lw.). Ithaca (Joh); **SI**: Watchogue, Je-J1, Ft.  
 Wadsworth, Aug, *Bs* (Ald); **LI**: Sands Pt., Je, *Bs* (Ald).  
*F. genualis* Stein. "NY" (Stein).  
*F. glaucescens* Zett. Ithaca, May-J1 (Huck); **LI**, May, Sep (Huck).  
*F. incisurata* Zett. "NY" (Meade); N. Evans, Nov 14 (MCV).  
*F. kowarzi* Verr. Albany, May (Huck).  
*F. laevis* Stein. **LI**, Je.  
*F. latipalpis* Stein. Ithaca, Je (Huck); **LI**, May (Huck).  
*F. manicata* Meig. Ithaca, Sep (Stein); McLean, Aug, *Sib* (Joh).  
*F. minutipalpis* Stein. Caroline to Harford, Je (Huck); Ithaca, Je; **LI**, May.  
*F. ochrogaster* Thoms. Adirondacks, J1 (Ald).  
*F. pallidiventris* Mall. McLean, J1 (Huck); **LI**, May (Huck).  
*F. parallela* Joh. (*sociella* Zett.?). Wells, Je (NYS); Ithaca, Aug 30.  
*F. pellucida* Stein. **LI**: Cold Sp. Harb., Sep (Huck).  
*F. postica* Stein. "NY" (Stein); Adirondacks, J1 (Ald); Ithaca, Je (Huck).  
*F. pusio* Wied. Ithaca, J1 (Huck).  
*F. serena* Fall. Upper Ausable L., Speculator, Keene Val., Saranac Inn, Je-Aug  
 (Huck-NYS); Tompkins Co, May-Je (Joh).  
*F. scalaris* Fab. Niagara Falls, Je; Ithaca, Ap-Nov (Joh).  
*F. spathiophora* Mall. Adirondacks, J1 (Ald).

## COELOMYIA Haliday

- C. subpellucens* Hal. Mt. Marcy (Beq); L. Tear (Beq); Mt. Redfield (Beq).

## PLATYCOENOSIA Strobl

- P. mikii* Strobl. **LI**: Pennequid Barrens (Beq).

## AZELIA Robineau-Desvoidy

- A. cilipes* Hal. Adirondacks, J1 (Ald); Gloversville, *Alex*; Caroline, Je (Joh);  
 Ithaca, Aug (Huck).  
*A. gibbera* Meig. Ithaca, May (Huck).  
*A. triquetra* Wied. Ithaca, Je (Huck).

## SUBFAMILY LISPINAE

## LISPA Latreille

- L. albitarsis* Stein. L. Tear (Beq); Erie Co, May-Jl (MCV); Tompkins Co, Aug (Joh); **SI**, Aug 18, *Ds* (Ald); **LI**: Sea Cliff (Joh); Brooklyn, Je 4, *Ds* (Ald).  
*L. nasoni* Stein. Manlius, *HHS* (Joh); **LI**: Long Beach (Beq).  
*L. palposa* Wlk. Erie Co, Je-Oct (MCV); Manlius, *HHS* (Joh); NYC, Je 15, *Ds* (Ald); **LI**: Long Beach (Beq).  
*L. sociabilis* Lw. Ithaca, Jl-Sep (Joh).  
*L. tentaculata* DeG. Erie Co, May-Aug (MCV); L. George, Sep, *Ndm* (Joh); Ithaca, Jl-Sep (Joh).  
*L. uliginosa* Fall. L. Tear (Beq); Manlius, *HHS*; Buffalo, *MCV* (Ald); Ithaca, Aug (Joh); McLean, Aug, *Sib* (Joh).

## SUBFAMILY LIMNOPHORINAE

## LIMNOPHORA Robineau-Desvoidy

- L. discreta* Stein (*incrassata* Mall.). Ithaca, Aug-Sep (Joh); McLean, Jl-Aug, *Sib* (Joh).  
*L. narona* Wlk. Erie Co, Je-Aug (MCV); Ithaca, Aug 9 (Joh); **LI**: Sands Pt., Je-Jl, *Bs* (Ald); Long Beach (Beq).

## LISPOIDES Malloch

- L. aequifrons* Stein. Ithaca, Je-Sep (Joh); McLean, Sep, *Sib* (Joh).

## SPILOGONA Schnabl and Dziedzicki

(*Melanochelia* Rondani)

- S. acuticornis* Mall. Ithaca, Jl (Huck).  
*S. (Gymnodia) arcuata* Stein. **LI**, Aug (Huck).  
*S. alticola* Mall. Adirondacks, Jl (Huck).  
*S. caroli* Mall. Adirondacks, Jl (Huck).  
*S. magnipunctata* Mall. Adirondacks, Jl (Huck).  
*S. monticola* Mall. McLean, Sep, *Sib* (Joh).  
*S. parvimaculata* Stein. Ithaca, *Joh* (Stein).  
*S. rufitibia* Stein. **LI** (Huck).  
*S. surda* Zett. Ithaca (Stein). (Cf. *acuticornis* Mall.)  
*S. tetrachaeta* Mall. Ithaca (Huck).  
*S. torreyae* Joh. Ithaca, May-Jl (Joh).  
*S. velutina* Mall. (*nigrifrons* Stein). Caroline to Harford, Je (Huck); Tompkins Co, Ap (Stein), as *nigrifrons*.

## TETRAMERINX Berg

- T. unica* Stein. **LI**: Sands Pt., *Bs* (Ald).

## LISPOCEPHALA Pokorný

- L. alma* Meig. Ithaca, May, *Joh* (Stein).  
*L. erythroceras* Desv. N. Evans (MCV); McLean, Jl-Sep, *Sib* (Joh).

## PENTACRICIA Stein

- P. aldrichi* Stein. McLean, May (Joh).

## LIMNOSPILA Schnabl

- L. albifrons* Zett. "NY".

## PHYLLOGASTER Stein

- P. cordyluroides* Stein. Chatham, Aug; **LI**: Cold Sp. Harb., Aug-Sep, *Bs* (Ald).  
*P. littoralis* Mall. N. Fair Haven, Jl (West); **LI**: Long Beach, Je, *Bs* (Ald).  
*P. nudiseta* Stein. **LI**: Sands Pt., Je, *Bs* (Ald).  
*P. robusta* John. **LI**: Je (Huck); Cold Sp. Harb., Sands Pt., Sep, *Bs* (Ald).

## SUBFAMILY COENOSIINAE

## MACRORCHIS Rondani

- M. ausoba* Wlk. (*Coenosia aurifrons* Stein). Alexandria Bay, Sep; Keene Val., Northampton, Broadalbin, Northville (NYS); Erie Co, May-Je, Aug, *MCV* (NYS); Tompkins Co, May-Sep (Joh); Albany, Corinth, Poughkeepsie, Je (NYS).

## COENOSIA Meigen

- C. antennalis* Stein. **LI**, Jl (Beq).  
*C. basalis* Stein. "NY."  
*C. canescens* Stein. Tompkins Co, May-Aug (Stein). (See *lata* Wlk.)  
*C. compressa* Stein. Wells, Jl, *Yg* (NYS).  
*C. errans* Mall. **LI**, May (Huck).  
*C. flavicoxa* Stein. Ithaca, Jl-Aug (Joh).  
*C. flavifrons* Stein. McLean, Jl, Sep, *Sib* (Joh).  
*C. fuscifrons* Mall. Sport I., Sacandaga R. (Alex).  
*C. geniculata* Fallén. Axton, Je (MacG); Alexandria Bay; Tompkins Co, May-Aug (Joh).  
*C. humilis* Meig. (*nana* Zett.). Ithaca, Mar-Sep (Joh); Lancaster, Mar, *MCV* (Ald); **LI**: Huntington, *Schott* (Beq).  
*C. hypopygialis* Stein. E. Aurora, Aug (MCV); Peru, Je, Adirondacks, Aug (Huck).  
*C. lata* Wlk. (?*canescens* Stein). Ithaca, Aug (Huck); Erie Co, Je-Oct (MCV); Greene Co, *How* (Ald); **SI** (Beq); **LI**: Long Beach (Beq).  
*C. modesta* Lw. Ithaca, Aug (Joh); McLean, Aug, *Sib* (Joh).  
*C. nigrescens* Stein. Ithaca, Jl, McLean, Aug (Huck).  
*C. nivea* Lw. Tompkins Co, Je (Joh); Niagara Falls, Je (Jn).  
*C. nudiseta* Stein. Little Valley, Aug; Erie Co, Je-Aug (MCV); **LI**: Long Beach (Beq).  
*C. ovata* Stein. Ithaca, Jl; Otto (Joh).

- C. rufitibia** Stein (*tibialis* Stein). Ithaca, May (Joh); Vandalia, Je (Joh).  
**C. solita** Wlk. Buffalo, Oct (MCV).  
**C. tigrina** Fab. Speculator, *Yg* (NYS); **LI**: Valley Stream, Aug (Huck).

## MACROCOENOSIA Malloch

- M. trisetata** Stein. Upper Ausable L., Essex Co (Beq); McLean, J1, Speculator, J1 (Huck).

## XENOCOENOSIA Malloch

- X. calopyga** Lw. Buffalo, Je (MCV); Ithaca, *Joh* (Stein); **SI** (Beq); **LI**: Long Beach (Beq).  
**X. floridensis** Mall. Ithaca, J1, Poughkeepsie, J1 (Huck).  
**X. major** Mall. **LI**: Cold Sp. Harb., Sep (Huck).

## HOPLOGASTER Rondani

- H. nigratarsis** Stein. Upper Ausable L. (Beq); Speculator, Wells (NYS); W. Danby, *MacG* (Joh); Augur Flats, J1, *Yg* (NYS); Dug Mt., Aug, *Yg* (NYS).

## SCHOENOMYZA Haliday

- S. chrysostoma** Lw. Niagara Falls, Je, *MCV* (Jn); Tompkins Co, Je-Aug (Joh).  
**S. dorsalis** Lw. (*litorella* Fall.?). Buffalo, Je (MCV); Colden, May (MCV); Greene Co, *How* (Ald); **LI**: Riverhead, Sep (Joh).  
**S. litorella** Fall. **LI**: Gardiners I., Aug (Beq).

## SUBFAMILY ANTHOMYIINAE

## ANTHOMYIA Linnaeus

- A. pluvialis** L. (*amoena* Meig., *oculifera* Bigot). Upper Ausable L. (Beq); Hamburg, May (MCV); Ithaca, May-Sep (Joh); McLean, Aug, *Sib* (Joh); L. George, Ap, *Leon* (Huck); **LI**: Hempstead, Ap (Huck).

## CALYTHERA Schnabl and Dziedzicki

- C. separata** Mall. Ithaca, May, Aug (Joh); McLean, Sep (Huck); Canandaigua L., Aug (Joh); **LI**: Hempstead, Ap, J1 (Huck).

## ANTHOMYIELLA Malloch

- A. pratincola** Panz. Rochester Jct., Je, *Leon*; Ithaca, J1 (Joh); **LI**: Little Neck, Syosset, Riverhead, Je-J1 (Huck).

## KINGIA Malloch

- K. quintilis** Mall. NYC (Beq).

## EMMESOMYIA Malloch

- E. apicalis** Mall. **LI**: Cold Sp. Harb., Sep, Lakeville, Aug (Huck).

## MACATEEIA Malloch

- M. protuberans** Mall. **LI**: Hempstead, Sep (Huck).



## NEOHYLEMYIA Malloch

- N. mallochii* Huck. Ithaca, Aug, types; **LI**: Hempstead, Glen Head, Cold Sp. Harb., Aug-Sep (Huck).

## HYDROPHORIA Robineau-Desvoidy

- H. ambigua* Fall. Ithaca, Je-Sep (Huck); McLean, JI, *Sib* (Joh).  
*H. divisa* Meig. Herkimer, Aug, *Leon* (Huck); Ithaca, May (Huck); McLean, Aug, *Sib* (Joh).  
*H. flavohalterata* Mall. **SI**: Watchogue, JI, *Leon* (Huck).  
*H. orientalis* Huck. **LI**: Baiting Hollow, Aug, type (Huck).  
*H. ruralis* Meig. Ithaca, *Joh* (Huck).  
*H. uniformis* Mall. Ithaca, May (Huck); McLean, Sep, *Sib* (Joh); **SI**: Watchogue, *Bs* (Ald); **LI**: Cold Sp. Harb., Sep (Huck).

## EUSTALOMYIA Kowarz

- E. festiva* Zett. Mt. Whiteface, 2000-4000 ft., Aug; N. Fair Haven, Aug (Joh); Ithaca, Je (Joh); McLean, Sep, *Sib* (Joh); Syracuse, *Blkm* (Hine).  
*E. vittipes* Zett. Old Forge, First L., Adirondacks, Aug (Huck); Buffalo, Je, *MCV*; Lake Ridge, Aurora, Coy Glen, Ringwood, Ithaca, May-Je (Huck); **LI**: Syosset, JI (Huck).

## HAMMOMYIA Rondani

- H. johnsoni* Stein. Ithaca, May-JI (Huck); Meadowdale, May, *Leon* (Huck).  
*H. maculata* Stein. Ithaca (Huck).  
*H. marylandica* Mall. **LI**: Baiting Hollow, May.  
*H. obtusa* Zett. (*paludis* Joh.). Ithaca, Ap-JI, type and paratype (Joh); **LI**: Glen Head, Ap (Huck).  
*H. unilineata* Zett. Ithaca, Ap-May; Albany, May, *Yg* (Huck); Mosholu (Huck-AM); **SI** (Beq); **LI**: Glen Head, Valley Stream, Ap (Huck).  
*H. uniseriata* Zett. Ithaca, Ap (Huck); **LI**, Je (Huck).

## PROSALPIA Pokorný

- P. angustitarsis* Mall. L. George, Sep, *Leon* (Huck); Beaver Kill, Aug (*CnJr*).  
*P. silvestris* Fall. Colden, Je (*MCV*); Olivera, *Ds* (Beq); L. Tackawasick, Je, *Leon*.

## EREMOMYIA Stein

- E. humeralis* Stein. Ithaca, Mar, *Bish*, May, *Snn* (Huck).  
*E. vernalis* Huck. Ithaca, Mar-JI, type (Huck).

## EREMOMYOIDES Malloch

- E. cylindrica* Stein. Ithaca, Mar-JI (Joh); Albany, Delmar, Thacher Pk., Karner, Mar-May (NYS); Valley Falls, *Yg* (NYS); Nyack, W. Nyack (Beq); **SI**: New Dorp, *Bs* (Ald).  
*E. fuscipes* Mall. Ithaca, Ap (Huck); **SI**: Cooper Cemetery, Mar, *Bs* (Huck).  
*E. similis* Mall. Ithaca, Mar-Apr, *Snn&West* (Huck).

## HYLEMYIA Robineau-Desvoidy

(Including *Phorbia* Desvoidy and *Chortophila* Macquart)

- H. albula* Fall. N. Fair Haven, J1, *West* (Huck); **LI**: Baiting Hollow, Sep (Huck); Cold Sp. Harb., Aug-Sep, *Beq&Bs* (Huck).
- H. alcatheae* Wlk. Adirondack Lodge, Keene, L. Placid, Speculator, Wells, Je-J1 (NYS); Upper Ausable L. (Beq); Buffalo, Je-Aug (MCV); Ithaca, Aug-Sep (Joh); McLean, Aug-Sep (Beq); **LI**: Lakeville, May (Huck).
- H. antiqua* Meig. (*Phorbia ceparum* Meig.). ONION MAGGOT. Speculator; Erie Co (Leon); Ogdensburg (NYS); Williamson, Aug, *Buys*; Rochester; Ithaca, McLean, May-Sep (Joh); Olean (Leon); Schenectady (NYS); Albany, Delmar, Kenwood (NYS); Durlandville, J1, *FrostSW* (Huck). Generally distributed, and in some seasons a serious pest on onions.
- H. arnolitra* Huck. Ithaca, May (Huck); **LI**: Hempstead, Ap (Huck).
- H. betarum* Lint. (*substriata* Stein). Ithaca, Ap-J1 (Huck); Albany (NYS); **LI**: Hicksville, Valley Stream, Ap (Huck), reared from beet leaves (Huck).
- H. bicaudata* Mall. Ithaca, Ap; **LI**, Ap (Huck).
- H. brassicae* Bouché. CABBAGE MAGGOT. Clinton Co (Felt); Onondaga Co; Wayne Co; Orleans Co; Monroe Co; Ontario Co; Chautauqua; Ithaca; McLean; Albany Co; **LI**: general. Generally distributed. A serious pest of cabbage, cauliflower, brussels sprouts, and radishes.
- H. cilicrura* Rond. (*Phorbia fusciceps* Am. auct. not Zett.). SEED CORN MAGGOT. Chazy; Mooers; Rodman; Macedon; Rochester; Shortsville; Middleport; Lockport; Erie Co (MCV); Dansville; Watkins; Tompkins Co; Auburn; Cortland; Syracuse, *Blkm* (Hine); Stephentown; Olivera (Beq); Yonkers; **SI**: Watchogue (Bs); **LI**: Pennequid Barrens, Great R. Widely, probably generally, distributed. In some seasons very injurious to sprouting beans.
- H. coarctata* Fall. "NY?" (Fallén).
- H. coenosiaeformis* Stein. Mt. Whiteface, 2000-4000 ft., Aug (Huck); Old Forge, First L., Aug; Saranac, Wells (NYS); Adirondack Lodge, *Leon* (Huck); Cranberry Cr. (NYS); L. Tear (Beq); Ithaca, Je-Aug (Huck).
- H. curvipes* Mall. Ithaca, May-J1 (Huck); Montezuma Marshes, Cayuga, J1 (Huck).
- H. depressa* Stein. Wells, Northampton, Je (NYS); Oswego, J1, *West* (Huck); Ithaca, J1-Aug (Huck); Albany, Scotia (NYS); Kinderhook, Je (NYS); Durlandville, Florida, Je, *FrostSW* (Huck).
- H. florilega* Zett. (*planipalpis* Stein, pp.). Ithaca, J1 (Huck).
- H. fugax* Meig. Ithaca, May, Sep-Oct (Huck); McLean, Sep (Huck). The larvae mine leaves of Chenopodium, Amaranthus, spinach, and beet (*FrostSW*).
- H. grandivillosa* Huck. **LI**: Hempstead, Ap (Huck).
- H. inconspicua* Huck. **LI**: Hempstead, Ap (Huck).
- H. innocua* Mall. Gloversville, J1, *Alex* (Huck); Wells, Cranberry Cr. (NYS); Ithaca, J1; McLean, J1-Aug, *Sib* (Joh).
- H. inornata* Stein. Ithaca, May (Huck); McLean, May-Sep, *Sib* (Joh); Shandaken, Je, *Leon* (NYS).
- H. ithacensis* Huck. Ithaca, Ap-May (Huck).
- H. laevis* Stein. Ithaca, Je, Sep (Huck); McLean, J1, *Sib* (Joh).

- H. lasciva* Zett. Old Forge, *Leon* (Huck); Ithaca, Ap-Jl (Huck).  
*H. latifrontalis* Huck. **LI**: Wading R., Cold Sp. Harb. (Huck).  
*H. latipennis* Zett. Mt. McIntyre, Aug, *Snn&Sib*, *Bish* (Huck); Hamburg, Aug (MCV); Ithaca, May-Aug; McLean, May, *Leon* (Huck).  
*H. megacephala* Mall. Ithaca, May; Montezuma Marshes, Cayuga, Je (Huck).  
*H. piloseta* Mall. Mt. Marcy, Jl, *Fbs* (Huck); Ithaca, Je (Huck).  
*H. pluvialis* Mall. Wells (NYS); Buffalo, Je (MCV); Ithaca, Jl-Aug (Huck); McLean, Jl-Sep, *Sib* (Joh).  
*H. pullula* Zett. Ithaca, May, *West* (Huck).  
*H. sepia* Meig. **LI**: Hempstead, Ap (Huck).  
*H. setigera* Joh. Rock City, Je; Ithaca, Je-Jl (Joh); Oliveria, Je, *Ds* (Ald); **LI**: Lakeville, Glen Head, May (Huck).  
*H. setitarsata* Huck. Speculator, Je (NYS); Ithaca, Ap-May; McLean, May, *Sib* (Joh); **LI**: Hempstead, Ap (Huck).  
*H. simpla* Coq. Adirondacks, Jl, *Ald* (Huck).  
*H. spizellae* Huck. Ithaca, reared from nests of chipping sparrow and robin by Dobrosky (Huck).  
*H. testacea* Stein. Adirondacks (Joh); Oswego, Jl (Huck); Ithaca, Je; Kinderhook, Je; Durlandville, Je.  
*H. trichodactyla* Rond. Speculator, Je (NYS); Peru, Jl; Ithaca, Sep; McLean, May, Jl, *Sib* (Joh); Clayville, Je, *Leon* (NYS); **LI**: Hempstead, Je (Huck).  
*H. trivittata* Stein. Wells, Big Moose, Blue Mt., *Yg* (NYS); **LI**: Lakeville, Hempstead, Jl, Sep (Huck).  
*H. unidorsalis* Huck. Ithaca, Ap (Huck).  
*H. uniseriata* Stein. Adirondacks, Jl, *Ald* (Huck).  
*H. variata* Fallén. Wells, Jl (NYS); Ithaca, Ap; McLean; Albany, Coeymans, Je (NYS); **LI**: Searingtown, Sep (Huck); Long Beach (Beq).

## PYCNOGLOSSA Coquillett

(Pogonomyza Schnabl and Dziedzicki)

- P. cinerosa* Zett. Ringwood, Je (Huck).  
*P. flavipennis* Fall. Malloryville, Je, Freeville, Jl (Huck).  
*P. gleniensis* Huck. Coy Glen, Ithaca, May (Huck); Karner, Je (NYS).  
*P. proboscidalis* Mall. (*campestris* Huck.). Cayuga, Je (Huck); **LI**: Plandome, Hempstead, May-Je (Huck).  
*P. spinosissima* Mall. Wells, Jl (NYS); Ringwood, Jl (Huck).

## EGLE Robineau-Desvoidy

(Xenophorbia Malloch)

- E. muscaria* Fab. Ithaca, Ap (Joh); Karner, Ap (NYS); Nyack, W. Nyack, Jl (Huck); **SI**: Oakwood, Ap, *Beq&Bs* (Huck).  
*E. longipalpis* Mall. Ithaca, Ap-May (Huck); Albany, Je, Karner, Ap (Huck-NYS); **SI**: Oakwood, *Bs* (Huck); **LI**: Baiting Hollow, Ap (Huck).

## PAREGLE Schnabl and Dziedzicki

- P. cinerella* Fall. Speculator, Wells, Je-Jl (NYS); Hamburg, May (MCV); Otto, Jl; Ithaca, May-Sep (Joh); McLean, Sep, *Sib* (Joh); Albany, Nassau, May (NYS); **SI**, Aug, *Ds* (Ald); **LI**: Franklin Sq., Ap; Searingtown, Long Beach, Sep (Huck).
- P. radicum* L. Keene Val., Aug (Huck-NYS); L. Tear (Beq); Speculator, Je, Wells, Jl (Huck-NYS); Ithaca, Sep (Huck); McLean, Aug-Sep, *Sib* (Joh); Ilion, May (NYS); Albany, Karner, Je (Huck-NYS); Poughkeepsie, Je (NYS); **SI**, *Bs* (Ald); **LI**: Glen Head, Ap, Aug; Central Pk. (Beq); Mineola, Jl (NYS).

## PEGOMYIA Robineau-Desvoidy

- P. acutipennis* Mall. L. George, Sep, *Leon* (Huck).
- P. affinis* Stein. Speculator and Wells, Je-Jl (NYS); Colden, Je (MCV); Rock City (Joh); Ithaca, May-Sep (Joh); McLean, May, Aug-Sep, *Sib* (Joh); Karner, Easton, May-Je (NYS); Germantown, Je (NYS); White Plains (Beq).
- P. bicolor* Wied. Northville, Je, *Yg* (NYS); McLean, Aug-Sep, *Sib* (Joh); Syracuse, *Blkm* (Hine); Albany, May (NYS); Niverville, May (NYS); Shandaken, Je, *Leon* (NYS); **LI**: Aug-Sep (Huck); Cold Sp. Harb. (Beq); Orient, Jl (NYS).
- P. calyptrata* Zett. L. George, Sep; Ithaca, May-Aug (Joh); Clinton Hgts., May, (NYS); **LI**: Hempstead, Ap (Huck).
- P. connexa* Stein (*emmesia* Mall.). Adirondack Lodge, Je, *Leon* (NYS); Ithaca, Ap; Riders Mills, *Bish* (NYS); Thacher Pk., Thompson L., Karner, May, *Leon* (NYS); **LI**: Cold Sp. Harb., Sep (Huck).
- P. dissecta* Meig. Mt. McIntyre, summit (NYS); McLean, May, Ringwood, Jl (Huck); Slide Mt., Catskills, Je, *Leon* (NYS).
- P. fringilla* Mall. Ithaca, May-Je (Huck); Albany, May (NYS).
- P. fuscofasciata* Mall. L. George, Aug, *Leon*; Karner, Je, *Leon* (NYS); Ithaca, Ringwood, Je; **LI**: Smithtown, Hempstead (Huck).
- P. geniculata* Bouché. Speculator, Jl (NYS); Herkimer, Aug, *Leon*; Greene Co (Ald); Ithaca, Je; McLean Bogs, Sep; Albany, Je (NYS); **LI**: Cold Sp. Harb., Sep (Huck).
- P. hyoscyami* Panz. (*vicina* Lint.). SPINACH LEAF MINER. Gouverneur; Morrisville; Ithaca; Cobleskill; Middleburg; Middletown; **SI**; **LI**: Jamaica; Elmont; Hempstead. The larvae mine leaves of beets, spinach, chard, and Chenopodium; often injurious.
- P. juvenilis* Stein. Cranberry Cr., Wells, Jl (NYS); Ithaca, May; L. George, Sep, *Leon*; **SI**: Richmond, Watchogue, Jl, *Bs* (Ald); **LI**: Lakeville, May (Huck).
- P. lipsia* Wlk. Keene Val., Trenton Falls, Wells, Speculator, Je-Jl (NYS); Aurora, May (Huck); Ithaca, McLean, May-Sep (Joh); Thacher Pk., Easton, May, *Leon* (NYS); Poughkeepsie, Shandaken, Je (NYS); Yorktown Hgts., *Ols* (Beq).
- P. littoralis* Mall. Old Forge, Aug (Huck).
- P. luteola* Mall. L. George, Aug, *Leon*; Ithaca, Je; **LI**: Cold Sp. Harb., Lakeville (Huck).
- P. nigratarsis* Zett. Montezuma Marshes, Cayuga, Je; **LI**: Valley Stream, Ap (Huck).

- P. rubivora** Coq. RASPBERRY CANE MAGGOT. Ithaca, Ringwood, May (Huck); L. George, Je; Rome, May.
- P. ruficeps** Stein. Ithaca, Jl; Albany, Je (NYS); **LI**: Riverhead, Jl (Huck).
- P. slossonae** Mall. **LI**: Wading R., Jl (Huck).
- P. unicolor** Stein. Wells, Jl (NYS); Ithaca, Je-Jl; McLean, Jl, *Sib* (Joh); **SI**, Jl (Huck, Beq); **LI**: Lakeville, Little Neck, Jl-Aug (Huck).
- P. vanduzeei** Mall. Ithaca, Taughannock Falls, Ap-May (Huck); Florida (Frost). The larvae mine leaves of Rumex.
- P. vittigera** Zett. Foot of Mt. Redfield, Essex Co (Beq).
- P. winthemi** Meig. Ithaca, Je-Sep; McLean, Aug-Sep, *Sib* (Joh); **LI**: Lakeville, May (Huck).

#### PROBOSCIMYIA Bigot

- P. siphonina** Bigot. Westfield, Sep (Stein).

#### SUBFAMILY FUCELLIINAE

#### FUCELLIA Robineau-Desvoidy

- F. maritima** Hal. Juanita I., L. George, Sep 1, *Leon* (Joh); **LI**: Rockaway, Long Beach (Beq).

#### FAMILY SCATOPHAGIDAE

#### (Cordyluridae)

#### CORDILURA Fallén

- C. carbonaria** Wlk. (*gagatina* Lw.). "NY" (Wlk); McLean, May, Jl (CnJr).
- C. cornuta** Lw. Ithaca and vic., May (Joh).
- C. gracilipes** Lw. (*Parallelomma gracilipes* Lw.). Saranac L., Jl; Erie Co, Je, Aug (MCV); Ithaca, May (CnJr); **LI**: Wyandanch, Ols (Beq).
- C. latifrons** Lw. (*confusa* Lw.). Van Cort. Pk., May (Bks); Erie Co, Je-Aug (MCV); Ithaca, McLean, Je (Joh); Catskills, Sep.
- C. praeusta** Lw. Erie Co, Je, Oct (MCV); Ithaca, May, Je, Sep (Joh); Karner (NYS).
- C. setosa** Lw. Mix Cr. Val.; Colden, May (MCV); Ithaca, Je (Joh); Mohawk R. Val. (Beq); W. Nyack (Beq).
- C. terminalis** Lw. McLean, Jl (CnJr); Albany (NYS).
- C. variabilis** Lw. Foot of Mt. Redfield, 2500 ft. (Beq).

#### PARALLELOMMA Becker

- P. banksi** Mall. "NY" (Lw), type.
- P. dimidiata** Cress. Ithaca, May (CnJr).
- P. munda** Lw. L. Tear, Upper Ausable L. (Beq); Lancaster (MCV); Little Valley, Aug (MCV); Inwood; NYC, *Schott* (Beq).
- P. pleuritica** Lw. (*slossonae* Coq.). Erie Co, Je, Oct (MCV); Ithaca, Jl (Joh); McLean, May (CnJr); Nassau, Aug.
- P. scapularis** Lw. NYC, May (Sturt).

#### HEXAMITOCERA Becker

- H. flavida** Coq. Caroline, Je (CnJr).



**ACHAETELLA** Malloch

- A. varipes** Wlk. (*bimaculata* Wlk.). L. Tear (Beq); Fulton Co; Erie Co, May-Aug (MCV); Ithaca, May-Jl (Joh); McLean, Jl (CnJr); Manlius; Albany (NYS); White Plains (Bks); Pine L.; Mosholu.

**ORTHACHAETA** Becker

- O. amoena** Cress. Ithaca, Ap-May (CnJr).

**ACANTHOCNEMA** Becker

- A. capillata** Lw. "NY" (Lw); Old Forge, Jl.

**MEGOPHTHALMA** Becker

- M. lutea** Lw. McLean, Sep, *Sib* (Joh).

**SPATHIOPHORA** Rondani

- S. cincta** Lw. Ithaca, Je (CnJr).

**MICROPROSOPA** Becker

- M. haemorrhoidalis** Meig. L. Tear (Beq); Buffalo, Oct (MCV); Karner.

**SCATOPHAGA** Meigen

- S. furcata** Say. Gloversville, Mar; Erie Co, May-Oct (MCV); Niagara Falls, Je (Jn); Syracuse, *Blkm* (Hine); Ithaca, Ap-Jl; McLean, May (CnJr); W. Nyack (Beq); NYC, Mar-Nov (Sturt); **SI** (Beq); **LI**: Farmingdale, Flushing (Beq).

- S. merdaria** Fab. Niagara Falls, Je (Jn).

- S. nigrolimbata** Cress. Upper Ausable L. (Beq); Ithaca, Je; McLean, May (CnJr); Beaver Kill, Aug (CnJr).

- S. stercoraria** L. Common and widely distributed, representative localities being: Mt. McIntyre, Jl; L. Tear (Beq); Axton; Erie Co, Ap-Oct (MCV); Otto, May, Je (Joh); Clifton Sps., Aug; Ithaca; McLean, May; Manlius; Johnstown; Albany (NYS); NYC, Oct (Sturt); **LI**: Brooklyn (Beq); Flushing (Beq).

- S. suilla** Fab. L. Tear and foot of Cliff Mt. (Beq); Wells, Jl (*Yg*); Niagara Falls, Je (Jn).

**HYDROMYZA** Fallén

- H. confluens** Lw. L. George, Jl (CnJr).

FAMILY **HELOMYZIDAE** <sup>105</sup>**TEPHROCHLAMYS** Loew

- T. canescens** Meig. (*rufiventris* Meig.). Upper Ausable L. (Beq); Speculator, Je (Garr-NYS); Ithaca, Ap-May; Erie Co, Ap, Je, *MCV* (CnJr).

<sup>105</sup> The list for this family has been checked by C. B. D. Garrett, who has added records and made some changes in synonymy.

## SUILLIA Robineau-Desvoidy

*(Helomyza* Fallén 1820, not 1810)

- S. apicalis* Lw. Taughannock Falls, Ap.  
*S. longipennis* Lw. Upper Ausable L. (Beq); Erie Co, including Little Valley, Je-Jl (MCV); Ithaca, Je-Aug (CnJr).  
*S. plumata* Lw. Newport, Je (Garr-NYS); N. Fair Haven; Manlius (OS); Ithaca, Je-Aug; Erie Co, May-Aug (MCV); Oswego.  
*S. quinquepunctata* Say. Ithaca, Je (CnJr).

## ALLOPHYLA Loew

- A. laevis* Lw. L. Tear, Upper Ausable L. (Beq); Niagara Falls, Je (Jn); Erie Co, including Little Valley, Jl-Sep (MCV); Ithaca, Aug.

## OECOTHEA Haliday

- O. fenestralis* Fall. (possibly *O. canadensis* Garr.). N. Evans, Nov (MCV); Ithaca (CnJr); Albany, Nov (NYS); NYC, May (Sturt); **LI**: Cold Sp. Harb., May (Sturt).

## AMOEBALERIA Garrett

- A. defessa* O.S. (possibly *sackeni* Garr.). Niagara Falls, Je (Ald); Ithaca, Feb (CnJr).  
*A. flavotestaceus* Zett. (*biseta* Lw.) (*Leria* Desv.). Boston, Sep, MCV.  
*A. sackeni* Garr. Clarksville (Garr), paratype.

## ANOROSTOMA Loew

- A. marginata* Lw. Oswego, Jl (Ald); Buffalo, Je (MCV); **LI**: Yaphank (Ols). Garrett writes that there are six species in the genus and that this is possibly *A. jerseyi* Garr.

## SCOLIOCENTRA Loew

- S. helvola* Lw. Manlius; Erie Co, Je-Jl (MCV); Silver L., Jl (MCV); McLean; Ithaca, Je-Aug (Ald); Nassau, Oct; Poughkeepsie, Jl (Garr-NYS).  
*S. helvola* var. *angustifrons* Bks. Ithaca.  
*S. tincta* Wlk. var. *pubescens* Lw. Ithaca, Mar (Snn).

## POSTLERIA Garrett

*(Neoleria* Malloch)

- P. leucostoma* Lw. Ithaca (CnJr).

## HELEOMYZA Fallén 1810

*(Leria* auct., in part)

- H. serrata* L. Ithaca (Joh).

## PSEUDOLERIA Garrett

- P. pectinata* Lw. NYC (Joh); **LI**: Cold Sp. Harb., *And* (Sturt). Garrett writes that this is a composite containing ten forms or species.

## LUTOMYIA Aldrich

- L. spurca* Ald. Ithaca, Oct, Joh (Ald), type.

## FAMILY CLUSIIDAE

*(Heteroneuridae)*

## CLUSIA Haliday

- C. czernyi* Jn. Sacandaga R., Je, Alex; Erie Co, May, Je; Holland, May (Jn); Little Valley, Je (MCV); Chautauqua L., Je (MCV); Ithaca (Mel); Albany, Je.  
*C. lateralis* Wlk. Erie Co, Je, Aug (MCV); Ithaca (Joh); Albany, Je; **SI** (Beq).

## CLUSIODES Coquillett

*(Heteroneura* Fallén 1823, not 1810)

- C. albimana* Meig. E. Aurora, Je.  
*C. americana* Mall. Ithaca, May (Mel); Upper Ausable L. (Beq).  
*C. atra* Mel. & Argo. Ithaca (Mel).  
*C. johnsoni* Mall. Cortland Co (Mel).  
*C. melanostoma* Lw. Holland, May; Ithaca, Ap (Joh); E. Aurora, Je (MCV); L. Tear (Beq).

## FAMILY BORBORIDAE

## SPHAEROCERA Latreille

- S. pusilla* Fall. Buffalo (MCV); NYC, Oct (Sturt).  
*S. subsultans* Fab. Ithaca (Joh); NYC, Mar-May (Sturt).

## LEPTOCERA Olivier

*(Limosina* Macquart)

- L. atra* Adams. **LI**: Cold Sp. Harb. (Spuler).  
*L. brachystoma* Stenh. **LI**: Cold Sp. Harb. (Spuler).  
*L. crassimana* Hal. Bear Mt., Je (Sturt).  
*L. evanescens* Tucker. NY.  
*L. ferruginata* Stenh. Albany, Mar-Apr (Sturt); Bear Mt., Je (Sturt).  
*L. fontinalis* Fall. McLean, J1; W. Nyack (Beq); **SI**, Oct (Sturt).  
*L. fuscipennis* Hal. NY (Spuler).  
*L. levigena* Spuler. **LI**: Cold Sp. Harb. (Spuler).  
*L. limosa* Fall. Newport, Je, Yg; Albany, Ap.  
*L. longicosta* Spuler. NY.  
*L. lutosa* Stenh. McLean, J1 (Sib); W. Nyack (Beq).  
*L. mitchelli* Mall. Ithaca, Aug, Joh (Mall).

## BORBORUS Meigen

- B. equinus** Fall. Ithaca, common (Joh); McLean, Jl-Aug; NYC, Feb, in greenhouse (Sturt); **LI**: Cold Sp. Harb., *Mel* (Spuler).  
**B. marmoratus** Beck. (*brevinsetus* Mall.). Bear Mt., Je (Sturt); Garrison, May (Sturt); **LI**: Cold Sp. Harb., *Mel* (Spuler).

## SCATOPHORA Robineau-Desvoidy

(Olin Macquart)

- S. carolinensis** Desv. (*geniculata* Macq.). Niagara Falls, Je (Jn); Geneva; McLean, May-Jl, *Sib* (Joh); Ramapo Mts. (Sturt); Garrison, May (Sturt); Pine I., Sep (AM); **LI**: Cold Sp. Harb., *Mel* (Spuler).

## FAMILY SCIQMYZIDAE

## NEUROCTENA Rondani

- N. anilis** Fall. Ogdensburg, Je (NYS); Johnstown; Niagara Falls; Wells, Jl (Yg); Ithaca, Aug (Joh); McLean, Ap; Karner, Je (Jn); Rensselaer, Je (NYS); Olivera (Beq).  
**N. simplex** Lw. Ithaca, Je, Aug (CnJr); Karner, May (NYS).

## DRYOMYZA Fallén

- D. dayi** Cress. Ithaca, Jl (CnJr).

## OIDEMATOPS Cresson

- O. ferruginea** Cress. Niagara Falls, Je (CnJr).

## SCIOMYZA Fallén

- S. aristalis** Coq. Niagara Falls, Jl (CnJr).

## PTEROMICRA Lioy

- P. nigromana** Mg. McLean, Aug, *Sib* (Joh).

## ATRICHOMELINA Cresson

- A. pubera** Lw. Ithaca, Jl (CnJr); Beaver Kill, Aug (CnJr).

## PHERBELLIA Robineau-Desvoidy

(Melina Robineau-Desvoidy 1830, not Retzius 1788)

- P. albovaria** Coq. Saranac Inn, Je (NYS); L. Placid, Aug (NYS); Ithaca, Je (CnJr); Niagara Falls, Jl (MCV).  
**P. annulipes** Zett. "NY" (Mel).  
**P. griseascens** Meig. **LI**: Cold Sp. Harb. (Beq).  
**P. nana** Fall. Ithaca, May-Aug (Joh); W. Nyack (Beq); W. Winfield, Je, *Leon* (NYS); NYC, Oct (Sturt); **SI**, Oct (Sturt).  
**P. schoenherri** Fall (*maculata* Cr.). Ithaca, Jl; Mosholu, Sep 9, *Lutz* (AM).

**ANTICHAETA** Haliday

- A. melanostoma** Mel. Ithaca, Je, Jl; Beaver Kill, Aug (CnJr).

**RENOCERA** Hendel

- R. longipes** Lw. Ithaca, May (CnJr).

**POECILOGRAPHA** Melander

- P. decora** Lw. Gloversville; Rochester, Je, Jl (Ald); Tompkins Co, Je-Aug (Mel); L. George, OS (Lw); Elba, Je (MCV); Rock Glen, Jl (MCV); Erie Co, Je-Aug (MCV); Voorheesville, Je (Leon).

**DICTYOMYIA** Cresson

- D. ambigua** Lw. McLean, Sep, *Sib* (Joh).

**EUTHYCERA** Latreille

- E. arcuata** Lw. (*flavescens* Lw.). Speculator, Aug (Yg); Wells, Jl (Yg); Newport, Jl (Yg); Axton; Upper Ausable L. (Beq); Gowanda, Je (MCV); Ithaca; Poughkeepsie, Je-Aug.  
**E. arcuata** var. **uniformis** Cress. Ithaca, Je (CnJr); **LI**: Forest Pk., *Schott* (Beq).

**TRYPETOPTERA** Hendel

- T. canadensis** Macq. (*T. pallida* Lw.). Manlius; Erie Co; Ithaca, Jl (CnJr).

**HOPLODICTYA** Cresson

- H. setosa** Coq. Larchmont, Aug (NYS); **LI**: Cold Sp. Harb. (Beq).

**DICTYA** Meigen

- D. umbrarum** L. (*Tetanocera*). Elm L., Aug, *Yg* (NYS); Hamburg (MCV); Little Valley, Aug (MCV); Ithaca; Albany and vic., Je-Jl (NYS); Carmel, Aug (AM); Poughkeepsie, May (NYS); Goshen, Sep (AM); White Plains, *Beq*; W. Nyack (Beq); NYC, Oct (Sturt); **SI**, Oct (Sturt); **LI**: Cold Sp. Harb. (Beq); Little Neck, *Schott* (Beq).

**LIMNIA** Robineau-Desvoidy

- L. boscii** Desv. (*combinata* Lw.). Saranac Inn, Je (Coq); Piseco L., Aug (NYS); Manlius (OS); Erie Co, Je (MCV); Gowanda, Je (MCV); Ithaca, Je-Aug; McLean, Je; Sacandaga Pk., Aug, *Alex* (NYS); Albany, Je (NYS); **LI**: Cold Sp. Harb. (Beq).  
**L. boscii** Desv. var. **sparsa** Lw. Ithaca, Jl (CnJr).  
**L. costalis** Lw. Ithaca, Aug (CnJr); Albany, Aug (NYS).  
**L. saratogensis** Fitch. Adirondacks, Saranac, Keene Val., North Cr., Aug (NYS); Erie Co (MCV); Ithaca; McLean, Jl; Broadalbin, Je; Saratoga; Albany, Je, Clinton Hgts., Je, Poughkeepsie, May (NYS); Mosholu (Bks); Fishkill, Jl; **LI**: Wyandanch, *Os* (Beq).



## TETANOCERA Dumeril

- T. brevis* Cress. Oswego, Aug (CnJr).  
*T. clara* Lw. Saranac Inn (Coq); L. Placid, *EPV* (NYS); Upper Ausable L., JI (NYS); Speculator, Wells, JI-Aug, *Yg* (NYS); Johnstown, Aug (Yg); Wells, JI (Yg); Trenton Falls, Je, *Yg*; Poughkeepsie, Je (NYS); W. Nyack (Beq).  
*T. elata* Fab. Ithaca, Je-Aug (CnJr).  
*T. ferruginea* Fall. Ithaca, May-Aug (CnJr).  
*T. plebeja* Lw. Northville, Speculator, Je-Aug, *Yg* (NYS); Elizabethtown, Je (NYS); Mt. Skylight, 4800 ft., Upper Ausable L. (Beq); Axton; Elm L., Aug, Chazy L., Je, Mt. Marcy, JI, 5000 ft. (NYS); Cranberry Cr., Je, *Yg*; Niagara Falls, Je (Jn); Erie Co (MCV); McLean; Ithaca (Joh); Trenton Falls, Je, Corinth, May, *Yg*; Albany, May, Je, Karner, Je, Rensselaer, Nassau, May, Poughkeepsie, Je (NYS); Pine I., Sep (AM); White Plains, Mosholu, May-Aug (Bezzi); W. Nyack (Beq).  
*T. rotundicornis* Lw. Colden, May (Jn); Hamburg, May (MCV); Little Valley, Je (MCV).  
*T. triangularis* Lw. Ithaca, May-Aug (CnJr).  
*T. valida* Lw. Erie Co, Je (MCV); Ithaca, Je, JI (Jn); Manlius (OS); Dug Mt., Adirondacks, Aug, *Yg*; W. Nyack, *Beq*.  
*T. vicina* Macq. (*T. plumosus* Lw.). Upper Ausable L., L. Tear (Beq); Essex Co, Keene Val., Aug (NYS); Blue Mt., JI, *Yg*; Saranac Inn, JI, Mt. Marcy, 1400 ft. (NYS); Manlius; Olcott, JI, Erie Co., JI-Sep (MCV); Otto, JI-Aug (Joh); Ithaca, May-Sep (CnJr); McLean (CnJr); Schodack Landing, Je (NYS); Albany, Je; Nassau, JI (NYS); W. Nyack (Beq); Mosholu (Bezzi); **SI**, Sep (Sturt); **LI**: Huntington, *Schott*.

## HEDRONEURA Hendel

- H. rufa* Panz. (*T. lineata* Day). Olcott, JI, Buffalo, Oct (MCV); Ithaca, Mar-Je (Joh); McLean, Je.

## SEPEDON Latreille

- S. armipes* Lw. Dayton, JI, Lewiston, Aug (MCV); Manlius (Joh); McLean, JI; Ithaca, May; W. Nyack (Beq); Yaphank, Sep.  
*S. fuscipennis* Lw. Saranac Inn (Coq); Erie Co, May-Sep (MCV); Ithaca, May-Je (CnJr); Fulton Co; Karner, Ap (Yg); Mosholu, May (Bks); L. Placid, Aug, *EPV* (NYS); Carmel, Aug (AM); W. Nyack (Beq); Pine I., JI (NYS); **LI**: Bellport (Coq).  
*S. pusillus* Lw. Saranac Inn, Aug (NYS); Rochester, Sep (NYS); Erie Co, Je-Oct (MCV); Ithaca, Je (CnJr); McLean, JI; Karner, Ap (NYS); Johnstown; **LI**.

## FAMILY SAPROMYZIDAE

## LAUXANIA Latreille

- L. cylindricornis* Fab. Upper Ausable L. (Beq); Chapel Pond, Je (NYS); L. Placid, JI; Speculator, Aug; Axton, Je; Wells, JI (NYS); Niagara Falls, Je (Jn); Ithaca, May (Joh); McLean, JI (Joh).

## LAUXANIELLA Malloch

- L. manuleata* Lw. Ithaca, JI (CnJr).

## CAMPTOPROSOPELLA Hendel

- C. verticalis** Lw. Lancaster, Je (MCV).  
**C. vulgaris** Fitch. Essex Co, Aug (NYS); Erie Co, Je-Sep (MCV); Ithaca, Je; Albany, Je; Mosholu, May; NYC, Oct (Sturt); **LI**: Orient (Beq).

## DECEIA Malloch

- D. gracilipes** Lw. Boston, Sep (MCV); Manlius (OS); Ithaca, Jl, Aug (CnJr).

## CALIOPE Haliday

- C. flaviceps** Lw. Ithaca, Ap (Joh); Ft. Edward (Lint); Mt. Vernon (Jn).

## MINETTIA Robineau-Desvoidy

- M. americana** Mall. (*longipennis* auct. not Fab.). Axton; Ithaca and vic., Je; Albany (NYS); Poughkeepsie (NYS); Bear Mt., Je (Stuart); **LI**: Central Pk. (Beq).  
**M. lupulina** Fab. Upper Ausable L. (Beq); Chapel Pond, Je (NYS); W. Winfield, Je (NYS); Speculator; Trenton Falls, Je, Jl (Jn); Erie Co (MCV); Ithaca, Manlius (Joh); Albany (NYS); **SI**, Je (Sturt).  
**M. obscura** Lw. Niagara Falls, Je (Jn); Erie Co, Je, Jl (MCV).  
**M. valida** Wlk. NY.

## SAPROMYZA Fallén

- S. annulata** Mel. Upper Ausable L. (Beq); Chazy L.; Karner; Axton; Niagara Falls, Je (Jn); Erie Co, Je (MCV); Caroline; Ithaca (CnJr).  
**S. quadrilineata** Lw. S. Wales, Jl (MCV); Ithaca, Je, Jl, Sep (Joh).  
**S. rotundicornis** Lw. Poughkeepsie, Albany, Je (Yg).

## SAPROMYZOSOMA Malloch

- S. bispina** Lw. Erie Co, Je (MCV); **LI**: Pennequid Barrens (Beq).  
**S. compedita** Lw. Adirondacks, Jl, Aug (NYS); Erie Co, Je, Jl (MCV); Ithaca, Je; Albany, Je.  
**S. conjuncta** John. Ithaca, Je (Jn); McLean, Jl, Aug (Joh).  
**S. disjuncta** John. (*similata* Mall.). Ithaca (Jn); NYC (Beq).  
**S. fraterna** Lw. Adirondacks, Je, Jl (NYS); Speculator, Aug; Honeoye Falls, Jl (Leon); Grand I., Je (MCV); McLean, Aug, Sep, *Sib* (Joh); Albany, Aug.  
**S. houghi** Coq. Albany, Poughkeepsie, Jl (NYS).  
**S. incerta** Mall. McLean, Aug, *Sib* (Joh).  
**S. philadelphia** Macq. Erie Co, Je-Aug (MCV); Otto, Jl; Ithaca; Manlius (OS); Olivera (Beq); Bear Mt., Je (Sturt).  
**S. sheldoni** Coq. Oswego, Aug (Coq); McLean, Jl.

## FAMILY LONCHAEIDAE

## LONCHAEA Fallén

- L. polita** Say (*rufitarsis* Macq.). L. Placid (NYS); Axton (Joh); Syracuse, *Blkm* (Hine); Rochester (MCV); Niagara Falls, May-Jl (Jn); Erie Co, May-Sep; Ithaca; Johnstown.  
**L. vaginalis** Fall. Durlandville, Je, *Frost*.

## FAMILY PALLOPTERIDAE

## PALLOPTERA Fallén

**P. superba** Lw. Niagara Falls, Je (Jn); Erie Co, Jl-Aug (MCV); Ithaca (Joh).

## FAMILY ORTALIDAE

## AMPHICNEPHES Loew

**A. pertusus** Lw. Karner, Je (Yg); Gowanda, Je (MCV); Mosholu, Je (Hendel);  
**LI:** Yaphank, *Ols* (Beq); Pennequid Barrens (Beq).

## RIVELLIA Robineau-Desvoidy

**R. cognata** Cress. Ithaca, Jl (CnJr); Bear Mt., Je (Sturt).

**R. flavimana** Lw. Fulton Co; Niagara Falls, Je; Erie Co, May-Jl (MCV);  
 Ithaca, Je-Aug (Joh); Poughkeepsie, May; Mosholu, May (Hendel); **SI**, Je  
 (Sturt).

**R. metallica** Wulp. Ithaca, Jl (CnJr).

**R. pallida** Lw. Erie Co, Je-Aug (MCV); Little Valley, Jl (MCV); L. Waccabuc,  
 Jl (AM); Ft. Montgomery, *Schott* (Beq); W. Nyack (Beq); Mosholu,  
 May (Hendel); **LI:** Flatbush, Je (AM).

**R. quadrifasciata** Macq. Ithaca, Jl (CnJr); **LI:** Long Beach (Beq).

**R. variabilis** Lw. Little Valley, Jl (MCV); Ithaca, Jl (CnJr); Poughkeepsie,  
 May (Yg).

**R. viridulans** Desv. L. Pleasant, Jl (NYS); Newport (NYS); Olcott, Jl (MCV);  
 Erie Co, Jl (MCV); Ithaca, Jl; Olivera (Beq); Albany; Red Hook, Je  
 (Leon); Richmond Hill, Jl (Jn); West Pt., Je (AM); Rye Pt. Pond, Je  
 (AM); Nyack (AM); Mosholu (AM); NYC, Je, *EBSouthwick* (AM);  
**SI**, Je (Sturt); **LI:** Central Pk. (Beq); Massapequa, Jl 11, Yaphank, May  
 30, *Ds* (CnJr); Orient (Beq).

## MYRMECOTHEA Hendel

(*Myrmecomylia*, not of Robineau-Desvoidy)

**M. myrmecoides** Lw. **LI:** Sea Cliff; Wading R., Aug 6, *Ds* (Jn); Yaphank, Je 11,  
*Ds* (CnJr).

## TRITOXIA Loew

**T. incurva** Lw. Poughkeepsie, Jl (Yg); Mosholu, Jl (Hendel); **SI** (Sturt).

## CAMPTONEURA Macquart

**C. picta** Fab. Kingston, Aug (Yg); **SI**, Je (Beq); **LI:** Flatbush, *Eng* (Beq);  
 Jamaica (Beq).

## IDANA Loew

**I. marginata** Say. **SI**, Je (Sturt); **LI:** Rockaway, Je 4, *Ds* (Dru); Flushing,  
 Wading R., Huntington, Pennequid Barrens, Flatbush, *Schott & Eng* (Beq);  
 Bergen Beach, Brooklyn, *Eng* (Beq); Yaphank, Je (CnJr).

## TEPHRONOTA Loew

- T. canadensis* John. Essex Co, J1 (NYS); Caroline, Je (CnJr).  
*T. narytia* Wlk. (*ruficeps* Wulp). Gowanda, Je (MCV); Manlius, Ithaca, Je (Joh); Poughkeepsie, Je; Mud Cr., Tompkins Co, Je (CnJr); **LI**: Yaphank, J1 (CnJr).

## MELIERIA Robineau-Desvoidy

- M. ochricornis* Lw. Adirondacks, Aug (Joh).  
*M. similis* Lw. Saranac Inn, J1 (Coq); Elba, Je (MCV); Ithaca, J1 (CnJr); Gloversville, Je, *Alex* (CU).

## TETANOPS Fallén

- T. luridipennis* Lw. **SI** (Sturt).

## CALLOPISTROMYIA Hendel

- C. annulipes* Macq. Buffalo, May (MCV); Manlius (Joh); Tompkins Co. including Ithaca; Nassau, Ap; **LI**: Flushing, Mar; Half Way Hollow Hills, J1 2, *Ds* (CnJr); Little Neck, *Schott* (Beq); Yaphank, Je (CnJr).

## PSEUDOTEPHRITIS Johnson

- P. corticalis* Lw. Ithaca (Joh).  
*P. cribrum* Lw. Ithaca, J1 (CnJr).  
*P. vau* Say. E. Aurora, Je (MCV); Colden, J1 (MCV); Ithaca, Ap, Aug (CnJr); Nassau, Ap; **LI**: Half Way Hollow Hills, J1 4, Amagansett, Sep 20, *Ds* (CnJr); Pennequid Barrens (Beq); Cold Sp. Harb. (Sturt); Half Way Hollow Hills, J1 (CnJr).  
*P. vau* var. *approximata* Bks. Ithaca, Aug (CnJr).

## CHRYSOMYZA Fallén

- C. demandata* Fab. Ft. Montgomery, *Schott* (Beq); NYC, Feb-Oct (Sturt); **SI** (Sturt); **LI**: Flatbush, *Schott* (Beq).

## EUXESTA Loew

- E. notata* Wied. Erie Co; Ithaca and vic. (CnJr); NY Bot. Gardens, J1; NYC, Oct (Sturt); **LI**: Brooklyn, *Schott* (Beq); Cold Sp. Harb. (Sturt).

## CHAETOPSIS Loew

- C. aenea* Wied. Mosholu, Oct (Hendel); **SI**, Je (Sturt); **LI**: Kings Pk. (Beq); Maspeth, Je, *Ols* (Beq); Gardiners I., Cold Sp. Harb., Long Beach (Beq).  
*C. apicalis* John. West Farms, NYC, Sep (AM); **SI**; **LI**: Cold Sp. Harb., May (Beq).  
*C. fulvifrons* Macq. L. Tear (Beq); Ithaca, May, Aug (Jn, CnJr); NYC, Sep (Sturt); **SI**, Je, Oct (Sturt); **LI**: Sea Cliff (CnJr); Long Beach (Beq).  
*C. massyla* Wlk. Adirondacks, Aug (CnJr); Potsdam, J1 (CnJr); Oswego, J1 (Jn); Ithaca; McLean, J1 (CnJr); Dryden L., Je (CnJr); Carmel, Aug (AM); **LI**: Wyandanch, *Ols* (Beq).

## SEIOPTERA Kirby

- S. albipes* Cress. Ithaca, May, Je (CnJr).  
*S. vibrans* L. Niagara Falls, Je; Buffalo, Je-Jl (MCV); Elba (MCV); Olcott, Jl (MCV); Syracuse, *Blkm* (Hine); Ithaca, Je (Joh); Albany, Je; White Plains, Jl (Bks); **LI**: Richmond Hill, Jl (Jn); Flatbush, *Schott* (Beq).

## EUMETOPIELLA Hendel

- E. rufipes* Macq. Erie Co, Je-Sep (MCV); Ithaca, May-Aug (Jn, CnJr); Mosholu, Je (Hendel); **SI** (Sturt).

## FAMILY TRYPETIDAE

## STRAUSSIA Robineau-Desvoidy

- S. longipennis* Wied. Potsdam; Newport; Niagara Falls, Je, Jl; Rochester, May; Erie Co, Portage (MCV); Ithaca; Manlius; Albany; **LI**: Maspeth, *Eng*; Flatbush, Queens (Beq).  
*S. longipennis* var. *cornigera* Wlk. (*longitudinalis* Lw.). Wells, Jl, *Yg* (Leon); Erie Co, Je, Jl, Portage, Jl (MCV); Ithaca, Je-Jl (CnJr); Sacandaga Pk. (VTPhillips); Sharon Sps.; Albany, Je (Leon).  
*S. longipennis* var. *trimaculata* Macq. (*typica* Lw.). Potsdam (VTPhillips); Tompkins Co, including Ithaca, Jl (CnJr).  
*S. longipennis* var. *perfecta* Lw. Ithaca, Jl (VTPhillips).  
*S. longipennis* var. *intermedia* Lw. Ithaca, Je (VTPhillips).

## ZONOSEMA Loew

(*Spilographa* Loew, in part)

- Z. electa* Say. "NY".  
*Z. flavonotata* Macq. (*basolum* O. S.). Ithaca, Jl (CnJr).

## ACIDIA Robineau-Desvoidy

- A. fratria* Lw. Tompkins Co.

## EPOCHRA Loew

- E. canadensis* Lw. Ausable Forks, May; Camden.

## ACIURA Robineau-Desvoidy

- A. nigricornis* Doane. Axton, Je (M&H); McLean, May (VTPhillips).

## STENOPEA Loew

- S. vulnerata* Lw. Protection, Sep (MCV).

## RHAGOLETIS Loew

- R. cingulata* Lw. WHITE-BANDED CHERRY FLY. Common and frequently injurious wherever cherries are grown in the State.  
*R. fausta* O.S. DARK-BODIED CHERRY FLY. Common and frequently injurious wherever cherries are grown in the State.



- R. juniperina** Marcovitch. Ithaca, Aug, reared from juniper berries.  
**R. pomonella** Walsh. APPLE MAGGOT. Common and frequently injurious wherever apples are grown in the State. Jl-Oct.  
**R. suavis** Lw. Ithaca, Aug, *JMStedman* (CnJr); Schuylerville, Sep (NYS); Middleburg; White Plains, Aug-Sep.  
**R. tabellaria** Fitch. "NY" (Fitch); Hamburg, Je (MCV).

## PROCECIDOCHARES Hendel

(Oedaspis Loew, in part)

- P. atra** Lw. Erie Co, Je, Rock Glen, Jl; Ithaca, Je-Jl, *Joh* (VTP); Poughkeepsie, Je; Matteawan, Sep; White Plains (Beq); **SI** (Beq); **LI**: Maspeth (Beq).  
**P. penelope** O.S. Manlius.  
**P. polita** Lw. Keene Val., Aug (NYS); Ithaca, Aug; vic. NYC.

## TERELLIA Robineau-Desvoidy

(Trypeta Loew not Meigen)

- T. florescentiae** L. (*ruficauda* Fab.). Essex Co; Bolton; Honeoye Falls, Jl (Leon); Buffalo, Je; Tonawanda, Jl (MCV); Otto, Jl, Aug; Lancaster, Je; Ithaca, Je, Jl, Nov (CnJr); Albany.

## NEASPILOTA Osten Sacken

(Aspilota Loew)

- N. alba** Lw. Ithaca (CnJr).

## XANTHOMYIA Phillips

(Tephritis auct., in part)

- X. platyptera** Lw. Johnstown, Je (NYS); Erie Co, May-Je; Albany, May (NYS); Nassau, May (NYS); Red Hook, Je (Leon); Poughkeepsie, May (NYS); Ithaca, Aug; McLean, Aug (CnJr).

## EUTRETA Loew

- E. sparsa** Wied. Saranac L., Aug; Fulton Co; Niagara Falls, Jl, Aug; E. Aurora, Jl (MCV); Ithaca; McLean Bogs, Aug (Phillips); Manlius; Albany; Hudson R. val.; Pine I., Ramapo, Sep (AM); Tomkins Cove, Sep (AM); **SI** (Sturt); **LI**: Hempstead; Flushing.

## EUROSTA Loew

- E. comma** Wied. Keene Val. (Beq); Wilmington, Aug (Phillips); Karner, Aug-Sep (NYS); Albany; White Plains, Sep; Ithaca (CnJr); Nyack (AM); Inwood (Schott); NYC (Sturt); **SI**, Sep (Sturt); **LI**: Brooklyn (Beq).  
**E. conspurcata** Doane. Johnstown, Je; Ithaca; Albany, Aug; Wappingers Falls, Je (Leon); **LI**: Babylon, May (Sturt).  
**E. elsa** Daecke. Fulton Co, Aug; Ithaca, May, Sep (CnJr); White Plains (Beq); NYC (Sturt); **LI**: Brooklyn (Beq); Richmond Hill, Oct; Forest Hills (Phillips); Wyandanch (Schott).

- E. reticulata** Snow. Ft. Montgomery (Schott); Yonkers (Beq).  
**E. solidaginis** Fitch. Speculator, Pike (NYS); Fulton Co; Geneva (Felt); Ithaca, Ap-May; Manlius; Hudson R. val.; Karner, including *E. Schodack* (NYS); Erie Co, May, Je (MCV); **LI**: Flushing.

**ICTERICA** Loew

- I. circinata** Lw. "NY".  
**I. seriata** Lw. Irving, Aug (MCV); Ithaca; White Plains (Beq).

**EUARESTA** Loew

- E. aequalis** Lw. Erie Co, Jl-Aug (MCV); Ithaca, Jl-Aug (CnJr); Van Cort Pk. (Phillips); **SI**, Aug; **LI**: Flatbush, Canarsie (Beq).  
**E. angustipennis** Lw. "NY" (Lw), type; Sacandaga Pk. (Phillips).  
**E. bella** Lw. Peru, Je, Cy (Phillips); Wilmington, Aug (Phillips); Mt. Whiteface, Aug (Phillips); Elizabethtown, Aug (NYS); L. Placid, Aug, *EPV* (NYS); Manlius; Honeoye Falls, Je (Leon); Clyde, Sep, *Bish*; Erie Co, Je-Aug (MCV); Westfield, Jl (NYS); Spring Lake, Cy (Phillips); Ithaca, Varna, McLean (Phillips); Albany; Karner, Jl (NYS); Clifton Sps., Aug (Phillips); Middletown, *ChasSpooner* (Phillips); Salem, Aug (NYS); Germantown, Jl (NYS); Carmel, Aug (AM); Phoenicia, Aug, *EPV* (NYS); Rhinebeck, Cy (Phillips); Port Chester, Jl (NYS); Moshulu, Jl-Aug; **LI**: Flatbush, Je, *Zab* (AM).  
**E. festiva** Lw. L. Pleasant, Jl (NYS); Buffalo, Aug; Irving, Aug (MCV); Ithaca, Sep; Middleburg, Jl (NYS); **LI**: Flushing.  
**E. pura** Lw. Woodward L., Sep (Phillips); Ithaca, Jl (CnJr).

**TRYPANEA** Schrank

- T. abstersa** Lw. Honeoye Falls, Je, *Leon* (VTP).  
**T. dacetoptera** Phillips. Rock City, Karner, Hillside Pt., Sep (VTP).  
**T. daphne** Wied. (*solaris* Lw.). Oswego, Je.

**TEPHRITIS** Latreille

- T. albiceps** Lw. Axton, Je, *M&H*; Adirondacks, May; Mt. Whiteface, Aug (Phillips); Speculator, L. Pleasant, L. Placid, Chazy L., Newport, May-Jl (NYS); Spring Lake, Jl (Phillips); Caroline to Harford, Je (CnJr); McLean, Je-Jl, *Sib* (Joh, CnJr); McLean Bogs, Aug (Phillips); Freeville, Jl (CnJr); Albany, Aug.  
**T. euryptera** Lw. West Pt.

**FAMILY MICROPEZIDAE**

**TAENIAPTERA** Macquart

- T. antennaeipes** Say. Niagara Falls, Je (Jn); Erie Co, Je-Aug (MCV); Chautauqua L., Je (MCV); Potsdam, Jl, Ithaca, Jl (CnJr); Albany, Je; Ft. Montgomery, *Schott* (Beq); White Plains, Jl (Bks); **LI**: Flatbush, *Eng* (Beq); Pennequid Barrens (Beq).  
**T. bruneipes** Cr. Ithaca, McLean, Jl, Oswego (CnJr).  
**T. divaricata** Cr. **LI**: Brooklyn, Jl, *Eng* (Beq).

## CALOBATA Meigen

- C. nasoni* Cress. Ithaca, May (CnJr).  
*C. pallipes* Say (*alesia* Wlk.). McLean, May, Dryden L., Tompkins Co, May. Je (CnJr); White Plains, May, *Bno* (Bks); Johnstown, Je; W. Winfield, Je (Leon-NYS); Erie Co, Je (MCV); Cayuga L. (OS).  
*C. univitta* Wlk. Erie Co, May-Jl (MCV); Ithaca, May, Je, Jl (Sturt); Amity, Je; NYC, May (Sturt).

## TANYPEZA Fallén

- T. luteipennis* Knab & Snn. (*longimana* auct. not Hal.). Oswego, Jl (type); Dayton, Jl; Jamestown, Je; Niagara Falls, Je (Jn).  
*T. picticornis* Knab. West Nyack (Beq).

## FAMILY SEPSIDAE

## SEPSIS Fallén

- S. cynipsea* L. Buffalo, Lancaster, Mar-Apr, in greenhouse (MCV).  
*S. neocynipsea* Mel. Buffalo, Mar; Manlius, Aug (Joh); McLean, Jl, *Sib*; Ithaca, Ap (CnJr).  
*S. pectoralis* Macq. Ithaca, Jl, Aug; Manlius, Aug (Joh); **LI**: Cold Sp. Harb. (Mel).  
*S. signifera* Mel. Alexandria Bay, Sep; Manlius, Aug (Joh); Ithaca, May-Jl; **LI**: Cold Sp. Harb. (Mel).  
*S. signifera* var. *curvittibia* Mel. McLean, Jl, *Sib* (Joh); Ithaca; **LI**: Cold Sp. Harb. (Mel).  
*S. vicaria* Wlk. Manlius, Aug (Joh); Ithaca, Je.  
*S. violacea* Meig. Speculator; Erie Co, May-Oct (MCV); Geneva, Jl, Aug; Ithaca, Je-Sep (Joh); Johnstown (NYS); Kingston; Southfields, *Schott* (Beq); W. Nyack (Beq); Bear Mt., Je (Sturt); **LI**: Cold Sp. Harb. (Mel).  
*S. violacea* Meig. var. *similis* Macq. Ithaca, May-Aug (CnJr).  
*S. violacea* Meig. var. *hecata* M. & S. Ithaca, Ap, Je (CnJr).

## MEROPLIUS Rondani

- M. stercorarius* Desv. Ithaca, Jl (CnJr); **SI**, Je (Sturt); **LI**: Cold Sp. Harb. (Mel).

## NEMOPODA Robineau-Desvoidy

- N. cylindrica* Fab. Ausable; Manlius, May-Jl (Joh); Geneva; Niagara Falls (Mel); Erie Co, May-Jl (MCV); Fulton Co; Ithaca; W. Nyack (Beq); NYC, Sep (Sturt); **LI** (Mel).

## THEMIRA Robineau-Desvoidy

- T. flavicoxa* Mel. **LI**: Cold Sp. Harb. (Mel).  
*T. incisurata* M. & S. var. *latitarsata* M. & S. Beaver Kill, Aug (CnJr).  
*T. minor* Hal. McLean, Jl, *Sib* (Joh); **LI** (Mel).  
*T. putris* L. Newport; Manlius; N. Evans, Jl (MCV); Buffalo, Jl (MCV); Ithaca and vic., May-Aug (Joh); Albany.

**SALTELLA** Robineau-Desvoidy

- S. scutellaris** Fall. E. Aurora, etc.; Erie Co, May, Je (MCV); Geneva (Mel); Hamburg, Je (Jn); Ithaca; NYC, May (Sturt); **LI**: Cold Sp. Harb.  
**S. scutellaris** var. **ruficoxa** Macq. Hamburg, Je 20 (MCV); Ithaca, May, Je (CnJr).

FAMILY **PIOPHILIDAE****PROCHYLIZA** Walker

- P. xanthostoma** Wlk. Hamburg, Ap (MCV); Ithaca, Ap (Joh); NYC, Oct (Sturt).

**PIOPHILA** Fallén

- P. casei** L. CHEESE SKIPPER. General, infesting cheese and other stored food products.  
**P. nigriceps** Meig. Ithaca, May (CnJr); **LI**: Cold Sp. Harb. (Mel).  
**P. oriens** Mel. & Spuler. Ithaca; Geneva (Mel).  
**P. privigna** Mel. (*pusilla* auct. not Meig.). Ithaca, May; **LI**: Cold Sp. Harb. (Mel).

FAMILY **PSILIDAE****LOXOCERA** Meigen

- L. collaris** Lw. Erie Co, Je-Aug (MCV); Ithaca, Jl (Jn); Poughkeepsie, Je.  
**L. cylindrica** Say. Blue Mt., Dug Mt. (Yg); Wells (Yg); Oswego, Jl (Coq); Erie Co, Je-Aug (MCV); Hamburg, Jl (Jn); Ithaca (CnJr); Poughkeepsie, Je (Yg).  
**L. cylindrica** var. **obsoleta** Jn. Erie Co, Aug-Sep (MCV); **LI**: Cold Sp. Harb. (Beq).  
**L. cylindrica** var. **pectoralis** Lw. Speculator, Aug (Yg); Ft. Montgomery, *Schott* (Beq).  
**L. cylindrica** var. **pleuritica** Lw. Erie Co, Jl-Sep (MCV); Olean, Aug (MCV); Ithaca and vic., Je-Aug (CnJr); Beaver Kill, Aug (CnJr-ANSP).

**PSEUDOPSILA** Johnson

- P. angustata** Cress. Lancaster, Sep 2 (MCV); Ithaca, Aug (CnJr).  
**P. bivittata** Lw. Fulton Co, Je, Aug (Jn); Freeville, Jl (CnJr).  
**P. collaris** Lw. Speculator, Je (Yg); Sport I., Sacandaga R., Ap (Alex); Erie Co, May-Je (MCV); Albany, Je, Poughkeepsie, Je, Yg; NYC, May (Sturt); **SI** (Sturt); **LI**: Cold Sp. Harb., May (Sturt).  
**P. fallax** Lw. Axton, Je (Joh); Wilmington; Round I., Sep (CnJr); Speculator, Aug, Yg; Kaaterskill, Aug (Jn).  
**P. perpolita** Johns. Colden, Je (MCV).

**PSILA** Meigen

- P. frontalis** Coq. Fulton Co, Je; McLean, Aug-Sep, Sib (Joh).  
**P. lateralis** Lw. Niagara Falls, Je (Jn); Ithaca, Aug; NYC, May (Sturt).

- P. rosae* Fab. CARROT RUST-FLY. Broadalbin, Dec; Williamson, Je; Irondequoit; Lima; S. Lima; Niagara Falls; Wellsville; Erie Co, May-Je (MCV); Ithaca, Je (Joh).  
*P. sternalis* Lw. Erie Co, Je-Aug (MCV); Caroline, Je (CnJr); Ithaca, Je.

## CHYLIZA Fallén

- C. apicalis* Lw. Albany, Aug.  
*C. notata* Lw. Speculator, Jl, Yg; Rock City, Je; Ithaca, May-Je (Joh); Coy Glen, Ithaca, May.

## STRONGYLOPHTHALMYIA Heller

- S. angustipennis* Mel. Wilmington, Aug (Snn).

## FAMILY DIOPSIDAE

## SPHYRACEPHALA Say

- S. brevicornis* Say. Wells, Jl (Yg); S. Wales, etc., Jl-Aug (MCV); Erie Co; Ithaca, Je-Aug, Nov (Joh); Manlius; Johnstown, Sep (Yg); Saratoga Co; Hague, Aug (Leon); Nassau L., Sep (Leon); **SI**, Richmond, May (Bs).

FAMILY EPHYDRIDAE<sup>106</sup>

## SUBFAMILY GYMNOPIINAE

## GYMNOPA Fallén

- G. tibialis* Cress. **LI**: Cold Sp. Harb., Oak I., Sea Cliff, *Bks*.

## ATHYROGLOSSA Loew

- A. glabra* Meig. Ithaca, May; Beaver Kill, Aug.  
*A. ordinata* Beck. Beaver Kill, Aug, *CnJr*.

## OCHTHEROIDEA Williston

- O. glaphryopus* Lw. **LI**: Cold Sp. Harb., Aug.  
*O. granulosa* Cress. Norton's Landing, Cayuga L., Je, *HHS* *Smith*.

## CLANONEURUM Becker

- C. cimiciformis* Hal. **LI**: Gardiners I. (Beq).

## SUBFAMILY PSILOPINAE

## PSILOPA Fallén

- P. atrimanus* Lw. NYC, Sep (Sturt); Ithaca, Aug (CnJr).  
*P. flavida* Coq. NYC, Sep (Sturt).  
*P. fulvipennis* Hine. NYC, Sep (Sturt).  
*P. leucostoma* Meig. Ithaca, Ap.

<sup>106</sup> The list for this family has been checked by E. T. Cresson, Jr., and most determinations, unless otherwise indicated, should be credited to him.



## TRIMERINA Macquart

*T. madizans* Fall. Albany, May; Beaver Kill; Ithaca, Je (CnJr).

## RHYSOPHORA Cresson

*R. robusta* Cress. W. Nyack, Je (Beq).

## DITRICHOPHORA Cresson

*D. exigua* Cress. Ithaca, May; Sport I., Sacandaga R.; Rensselaer, May.

## DISCOCERINA Macquart

*D. obscura* Will. **LI**: Cold Sp. Harb.

*D. obscurella* Fall. Niagara Falls, Je; Ithaca, May-Aug; Mud Cr., Tompkins Co, Je; Beaver Kill, Aug; Bear Mt., Je (Sturt); Van Cort. Pk., Je; **LI**: Cold Sp. Harb., Je-Aug; Babylon, May (Sturt).

*D. parva* Lw. Mud Cr., Je; Ithaca, Aug; Van Cort. Pk., Jl.

## DICLASIOPA Hendel

*D. xanthocera* Lw. **SI**, Oct (Sturt).

## POLYTHICHOPHORA Cresson

*P. conciliata* Cress. **LI**: Cold Sp. Harb., Jl, Sheepshead Bay, Je, *Yg*.

*P. orbitalis* Lw. Beaver Kill, Aug, *CnJr*; **LI**: Cold Sp. Harb., Je (CnJr).

## SUBFAMILY NOTIPHILINAE

## PHILYGRIA Stenhammar

*P. debilis* Lw. Wells, Jl, *Yg*; Geneva, May; Ithaca, May; Albany, May, *Yg*; Mt. Whiteface, Aug; **LI**: Cold Sp. Harb., Aug (Claas).

*P. fuscicornis* Lw. **SI**, Je, Oct (Sturt).

*P. opposita* Lw. Wilmington, Aug; Buffalo, Je; Chipmunk Swamp, Vandalia, Je; Caroline, Je; Ithaca, Jl; Freeville, Jl; Mud Cr., Tompkins Co, Je; Albany, Je; NYC, Mar (Sturt); **LI**: Cold Sp. Harb., Aug (Sturt).

## PHILYGRIOLA Hendel

*P. picta* Fall. Wells, Je, *Yg*.

## HYDRELLIA Robineau-Desvoidy

*H. cruralis* Coq. Grand I., Oct, *MCV*.

*H. formosa* Lw. Ithaca; NYC, Oct (Sturt); **LI**: Cold Sp. Harb., Je-Aug.

\**H. hypoleuca* Lw. E. Aurora, Aug; Colden, Aug; Grand I., Oct; Ithaca, Jl; **LI**: Ridgewood, Je.

*H. ischiaca* Lw. Ithaca, Aug.

- H. obscuripes* Lw. Hamburg, Aug, *MCV*; Ithaca; Beaver Kill, Aug, *CnJr*; **LI**: Cold Sp. Harb., Aug.  
*H. scapularis* Lw. Saranac Inn, J1; Ithaca, May; **LI**: Cold Sp. Harb., Sheepshead Bay, Je-Aug.  
*H. tibialis* Cress. **SI**, Oct (Sturt).  
*H. valida* Lw. **LI**: Cold Sp. Harb., Je.

**ILYTHEA** Haliday

- I. spilota* Cut. Beaver Kill, Aug, *CnJr*; Ithaca, J1.

**PARALIMNA** Loew

- P. appendiculata* Lw. Ithaca (*CnJr*).

**NOTIPHILA** Fallén

- N. bispinosa* Cress. **LI**: Cold Sp. Harb. (Beq).  
*N. loewi* Cress. Franklinton, Je, *Leon*.  
*N. olivacea* Cress. Ithaca.  
*N. riparia* Meig. Ithaca.  
*N. scalaris* Lw. L. Tear (Beq); Niagara Falls, Je (*MCV*); Colden, Je (*MCV*); Ithaca, and several other Tompkins Co localities, Je-J1; Beaver Kill, Aug; Gowanda, Je (*MCV*).

**DICHAETA** Meigen

- D. caudata* Fall. Ithaca, Ap-May; Albany, May, *Yg*; Karner, Ap, *Yg*.

**TYPOPSILOPA** Cresson

- T. atra* Lw. Ithaca, Je, J1 (*CnJr*).

SUBFAMILY **EPHYDRINAE**

**PELINA** Haliday

- P. brevis* Wlk. Niagara Falls, Je, *MCV*.  
*P. truncatula* Lw. Buffalo, Oct, *MCV* (*Jn*).

**LYTOGASTER** Becker

- L. grvida* Lw. Ithaca, Aug (*CnJr*).

**HYADINA** Haliday

- H. albovenosa* Coq. NYC, Mar (Sturt).

**NAPAEA** Robineau-Desvoidy

- N. vanduzeei* Cress. E. Aurora, J1 27, *MCV*.

**PARYDRA** Stenhammar

- P. bituberculata* Lw. Manlius; Ithaca, Je-Jl, Sep; Voorheesville, Jl, *Leon*.  
*P. breviceps* Lw. Erie Co, Jl-Aug (MCV); Beaver Kill, Aug.  
*P. imitans* Lw. **LI**: Cold Sp. Harb., Jl.  
*P. paullula* Lw. **LI**: Cold Sp. Harb., Aug.  
*P. pinguis* Wlk. Niagara Falls, Je, *MCV*.  
*P. quadrituberculata* Lw. Buffalo, E. Aurora, Hamburg, Lancaster, Je-Aug, *MCV*.  
*P. unituberculata* Lw. **LI**: Cold Sp. Harb., Aug.

**OCHTHERA** Latreille

- O. mantis* DeG. Wilmington Notch, Je, *Leon*; L. Tear (Beq); Saranac Inn, Jl;  
 Manlius; Erie Co, May-Aug, *MCV*; Johnstown, Sep; Poughkeepsie, Je;  
 White Plains, Aug; **LI**: Cold Sp. Harb. (Beq).

**BRACHYDEUTERA** Loew

- B. argentata* Wlk. (*dimidiata* Lw.). Ithaca, Jl (Joh).

**EPHYDRA** Fallén

- E. subopaca* Lw. Syracuse, May; Ithaca, May-Oct (Joh); **LI**: Sheepshead Bay, Je.  
*E. atrovirens* Lw. Ithaca (CnJr).

**CIRRULA** Cresson

- C. gigantea* Cress. **LI**: Sheepshead Bay, Aug, *Yg*.

**CAENIA** Robineau-Desvoidy

- C. bisetosa* Coq. Niagara Falls, Aug, Oct (CnJr).

**DIMECAENIA** Cresson

- D. spinosa* Lw. (*Caenia*). **SI**, Oct (Sturt); **LI**: Cold Sp. Harb., Gardiners I. (Beq).

**SCATELLA** Robineau-Desvoidy

- S. lugens* Lw. Adams Center, May, *Claas* (Joh); Ithaca, Aug (CnJr); McLean, Je, *Sib* (Joh); Albany, Je; Rensselaer, May; Pawling, May; W. Nyack (Beq); **LI**: Sheepshead Bay, Je, *Yg*.  
*S. stagnalis* Fall. Speculator, Aug, *Yg*; Broadalbin, Je, *Yg*; Ithaca, Aug (CnJr); Erie Co, May-Oct, *MCV*; Albany, Ap-May; Rensselaer, May-Je; Syracuse, *Blkm*; **LI**: Sheepshead Bay, Je, *Yg*.  
*S. quadrinotata* Cress. Erie Co, Aug, Oct, *MCV*.

**SCATOPHILA** Becker

- S. despecta* Hal. (*variabilis* Cress.). NYC, Mar (Sturt).

## FAMILY CHLOROPIDAE

## MEROMYZA Meigen

- M. americana** Fitch. Speculator; Axton; Ithaca; Scipioville; Albany; Karner, May-Jl.

## EPICHLOROPUS Becker

- E. sp.** Cayuga L., Jl (Ald).

## CHLOROPISCA Loew

- C. glabra** Meig. (*assimilis* Macq.). Johnstown, Je; Ithaca, May, Jl, Sep; Albany, Je; **LI**: Babylon, May (Sturt).  
**C. grata** Lw. Beaver Kill, Aug, *CnJr*; **LI**: Rosedale, *Schott*.  
**C. rufescens** Coq. Rhinebeck, Jl, *Cy* (Ald); **SI** (Beq).  
**C. variceps** Lw. (*prolifera* O.S.). Ausable Forks, Ap-Aug; Elizabethtown, Aug; Fulton Co; Alfred Center; Karner, Mar; Ithaca, Aug-Sep (Ald).

## DIPLOTOXA Loew

- D. microcera** Lw. McLean, Aug, *Sib* (Joh).  
**D. recurva** Adams. Saranac L., Aug (Ald).  
**D. versicolor** Lw. Ithaca, Jl (Joh); Beaver Kill, Aug, *CnJr*; L. Tear (Beq).

## LASIOSINA Becker

- L. canadensis** Ald. Saranac L. (Ald).

## ANTHRACOPHAGA Loew

- A. sanguinolenta** Lw. McLean, May (Ald).

## CHLOROPS Meigen

- C. antennalis** Fitch. "NY".  
**C. certima** Adams. Adirondacks (Ald); Sport I., Sacandaga R. (Alex).  
**C. hortensis** Fitch. "NY". Not recognized (Beq).  
**C. liturata** Adams. Albany, May.  
**C. melanocera** Lw. Johnstown, Je; Niagara Falls, Je.  
**C. obscuricornis** Lw. McLean, Je, *Sib*; L. Tear (Beq); **LI**: Huntington, *Schott*.  
**C. producta** Lw. Eddyville, Jl, *FrostSW* (Ald); Ithaca, Je-Jl, *Sib*.  
**C. proxima** Say. Ithaca, Je, *And* (Ald).  
**C. scabra** Coq. Oswego.  
**C. tarsalis** Becker. Ithaca, Je (Ald).

## PARECTECEPHALA Becker

- P. eucera** Lw. Speculator, Aug; L. Placid, Je; Greene Co, *How* (Ald); Bear Mt. (Sturt); **LI**: Oyster Bay.

## PSEUDOGAURAX Malloch.

*P. anchora* Lw. Ithaca, May; NYC (Sturt).

## EUGAURAX Malloch

*E. floridensis* Mall. "NY".

## GAURAX Loew

*G. dorsalis* Lw. "NY".

## CRASSISETA von Roser

*C. aliena* Becker. Adirondacks, *Alex* (Ald).

*C. costata* Lw. Speculator, J1 (NYS); Ithaca, May (Ald); Albany, May; NYC, Oct (Sturt); **SI**, Oct (Sturt).

*C. nigriceps* Lw. McLean, Je; Albany, May.

## MELANOCHAETA Bezzi

*M. (Doliomyia) longiventris* Joh. Ithaca, Ap (Joh).

*M. longula* Lw. Saranac L., Aug (Ald); Schodack, Mar, NYC, Oct (Sturt); **SI**, Oct (Sturt).

## HIPPELATES Loew

*H. flavipes* Lw. "NY".

*H. nitidifrons* Mall. Ithaca, Oct (Sturt); NYC, Sep (Sturt); **LI**: Cold Sp. Harb., May (Sturt).

*H. nobilis* Lw. Ft. Montgomery, *Schott*.

*H. plebejus* Lw. Ithaca, May (Ald).

*H. subvittatus* Mall. **LI**: Babylon, May (Sturt).

## MADIZA Fallén

(*Siphonella* Macquart)

*M. cinerea* Lw. Saranac L., Aug (Ald).

*M. finalis* Becker. Ithaca, Nov (Ald). Reared from decaying iris roots.

## NOTONAULEX Becker

*N. cincta* Meig. Ithaca, Sep (Ald).

## BOTANOBI Lioy

(*Oscinis* auct.; *Oscinosoma* Lioy; *Oscinella* Becker)

*B. anthracina* Mg. McLean, J1 (Sib).

*B. coxendix* Fitch. Adirondacks, Aug; Greene Co, *How* (Ald); Ithaca, Ap, Oct (Ald); **SI**, Oct (Sturt).

*B. coxendix* var. *obscura* Coq. McLean, Aug.

*B. dorsata* Lw. (*dorsalis* Lw. 1869, not 1863). Ithaca, *FrostSW* (Ald).



- B. frit* L. Ithaca, May-Aug (Ald).  
*B. incerta* Becker. McLean, JI.  
*B. nitidissima* Meig. (*variabilis* Lw.). McLean, May.  
*B. soror* Macq. "NY".  
*B. tibialis* Fitch. "NY".  
*B. umbrosa* Lw. "NY".

FAMILY DROSOPHILIDAE<sup>107</sup>

## AMIOTA Loew

(Phortica Schiner)

- A. humeralis* Lw. Wells, JI, *Yg* (Sturt); Axton, JI; Niagara Falls (Jn); Ithaca, Je, JI (Joh); **SI**, JI (Sturt); **LI**: Wyandanch, *Schott* (Beq).  
*A. leucostoma* Lw. Wells, JI, *Yg* (Sturt); Ithaca, Je-Aug (CnJr); **SI** (Sturt).  
*A. minor* Mall. **SI**, Je (Sturt).

## STEGANA Meigen

- S. coleoprata* Scop. Wells, JI, *Yg* (Sturt); S. Wales, JI (MCV); Cranberry Cr., Je (Sturt); Albany, May, *Yg* (Sturt); Ithaca (Joh), as *vittata* Coq; NYC, May (Sturt).

## CLASTOPTEROMYIA Malloch

- C. inversa* Wlk. Ithaca (Sturt); NYC, Sep-Oct (Sturt).

## MYCODROSOPHILA Oldenberg

- M. dimidiata* Lw. Ithaca (CnJr); **SI** (Sturt).

## CHYMOMYZA Czerny

- C. amoena* Lw. Speculator, Wells, JI-Aug, *Yg* (Sturt); Erie Co, Ap-Sep (MCV); Tompkins Co, May-Oct (Sturt); Karner, Aug (Sturt), and vic., May-Nov; Albany; Montgomery, JI; NYC, Je-Oct (Sturt); **SI**, Oct (Sturt); **LI**: Cold Sp. Harb. (Sturt).  
*C. procnemis* Will. Albany, JI (Sturt); NYC (Sturt).

## LEUCOPHENGHA Mik

- L. maculosa* Coq. NYC, Oct-Nov (Sturt); **LI**: Flatbush (Sturt).  
*L. varia* Wlk. NYC, Sep (Sturt).

## DROSOPHILA Fallén

- D. affinis* Sturt. Wells, JI, *Yg* (Sturt); Niagara Falls (Jn); Ithaca, *FrostSW*; Albany, Je (Sturt); NYC, Je, Oct (Sturt); **SI** (Sturt).  
*D. busckii* Coq. Ithaca, Nov 3 (Joh); Kingston, Nov; NYC, Je, Nov (Sturt).  
*D. colorata* Wlk. (*sulcata* Sturt.). Wells, JI, *Yg* (Sturt); Ithaca, May, *Snn* (Sturt).

<sup>107</sup> Dr. A. H. Sturtevant has looked over the list for this family and has supplied many records.

- D. flaveola* Meig. Buffalo, N. Evans, Je-Oct (MCV).
- D. funebris* Fab. Niagara Falls, Je (Jn); Buffalo, Ap, Nov (MCV); Ithaca, Aug, Sep (Sturt); Nassau, Jl; Tarrytown; Nyack, *Zab* (Sturt); NYC, Je (Sturt); West Sand L., Oct, Nov (Sturt).
- D. hydei* Sturt. Albany, Oct (Sturt).
- D. immigrans* Sturt. (*tripunctata* Sturt.). Ithaca; White Plains (Sturt); NYC, Oct (Sturt); **SI**; **LI**: Cold Sp. Harb. (Sturt).
- D. melanica* Sturt. NYC (Sturt).
- D. melanogaster* Meig. (*ampelophila* Lw.). Common throughout the State all the year (Sturt).
- D. ordinaria* Coq. Erie Co, Je-Nov (MCV).
- D. putrida* Sturt. Speculator, Wells, Je, Jl, *Yg* (Sturt); Cranberry Cr., Je, *Yg* (Sturt); Niagara Falls (Jn); Ithaca, Ap, May; Ramapo, Mar (Sturt); Albany, May, *Yg* (Sturt); NYC (Sturt); **SI**, Je (Sturt); **LI**: Cold Sp. Harb. (Sturt).
- D. quinaria* Lw. Speculator, Wells, Je, Aug, *Yg* (Sturt); Erie Co, May, Oct (MCV); Ithaca, May, Aug (Sturt); McLean, May (Joh); Albany, May, Oct, *Yg* (Sturt); Karner, May (Sturt); W. Nyack, Je (Sturt); NYC, Aug (Sturt); Rye, larvae in burrows of *Papaipema* spp. (Bird).
- D. repleta* Woll. Buffalo, Oct (MCV); Ithaca, Nov 3 (Joh); Albany, Sep-Nov (Mall); Meadowdale (Sturt); NYC, throughout the year (Sturt); **LI**: Maspeth (Sturt).
- D. robusta* Sturt. Ithaca, Ap 3, May, Aug, *FrostSW* (Sturt); **SI** (Sturt); **LI**: Cold Sp. Harb. (Sturt).
- D. sigmoides* Lw. NYC, Oct, Nov (Sturt); **LI**: Cold Sp. Harb. (Sturt).
- D. simulans* Sturt. **SI** (Sturt); **LI**: Cold Sp. Harb. (Sturt).
- D. sulcata* Sturt. Ithaca, Ap, Jl (Cress).
- D. transversa* Fall. Cranberry Cr., Je, *Yg* (Sturt); Speculator, Wells, Jl, Aug, *Yg* (Sturt); Niagara Falls, Je (Jn); Ithaca, May (Sturt); Albany, Je (Sturt); **SI**, Je (Sturt); **LI**: Cold Sp. Harb. (Sturt).
- D. virilis* Sturt. NYC, Nov (Sturt).

## SCAPTOMYZA Hardy

- S. adusta* Lw. Ithaca, Tarrytown, Florida, reared from leaves of various mustards, Jl, Aug, *FrostSW* (Sturt); Valley Falls, Aug, *Yg* (Sturt); NYC, Sep (Sturt); **SI**, Oct (Sturt); **LI**: Cold Sp. Harb. (Sturt).
- S. graminum* Fall. Wells, Jl, *Yg* (Sturt); Niagara Falls, Je (Jn); Buffalo, Sep, Oct (MCV); Ithaca, May-Sep (Sturt); Bear Mt., Je (Sturt); Albany, Mar-Nov (Sturt); **SI**, Oct (Sturt); **LI**: Cold Sp. Harb. (Sturt); New Baltimore, May (Sturt).
- S. terminalis* Lw. Albany, Sep, *Yg* (Sturt); Middletown, Cy (Sturt).

## CURTONOTUM Macquart

- C. helvum* Lw. Ithaca, May (Joh); Mosholu, May (Bks); **LI**: Orient, *Zab* (Sturt); Long Beach, Pennequid Barrens (Beq).

## AULACIGASTER Macquart

- A. leucopeza* Meig. Ithaca (Sturt).

## FAMILY ASTEIIDAE

## ASTEIA Meigen

*A. beata* Ald. Wells (Yg-NYS).

## FAMILY GEOMYZIDAE

## DIASTATA Meigen

*D. nebulosa* Fall. Speculator, JI, Yg; Albany, Ap.

*D. repleta* Wlk. (*pulchra* Lw.). McLean, May, JI (Joh).

## ISCHNOMYIA Loew

*I. albicosta* Wlk. Erie Co, Je, Aug (MCV).

*I. spinosa* Hendel. Coy Glen, Ithaca, Je, *Leon* (Joh); McLean, Sep (Joh).

## ANTHOMYZA Fallén

*A. gracilis* Fall. Wells, JI (Joh); Slaterville (FrostSW).

*A. tenuis* Lw. "NY" (Lw).

*A. variegata* Lw. Buffalo, Je (MCV); McLean, JI, *Sib* (Joh); Bear Mt., Je (Sturt).

## MUMETOPIA Melander

*M. occipitalis* Mel. NYC, Oct (Sturt).

*M. terminalis* Lw. (*nitens* Mel.). Niagara Falls, Je 23 (Jn); Buffalo, Je (MCV); McLean, Je, *Sib* (Joh).

## TETHINA Haliday

*T. albula* Lw. LI: Cold Sp. Harb., May (Sturt).

*T. parvula* Lw. (*Rhinoessa whitmani* Mel.). LI: Rockaway Beach (Beq).

## PELOMYIA Williston

*P. mallochi* Sturt. (*Tethina parvula* auct. not Lw.). LI: Cold Sp. Harb., May (Sturt).

## CHIROMYIA Robineau-Desvoidy

(*Scyphella* Robineau-Desvoidy)

*C. flava* L. Erie Co, Je-Aug (MCV).

## FAMILY MILICHIIDAE

## PHOLEOMYIA Bilimek

*P. indecora* Lw. (*Rhynchomilichia* Hendel). "NY", Je, *Bs* (Mall); Ithaca (Joh).

## MILICHELLA Giglio-Tos

*M. arcuata* Lw. LI (Mel).

*M. lacteipennis* Lw. SI, May (Sturt); Syracuse, *Blkm* (Hine).

## EUSIPHONA Coquillett

*E. mira* Coq. Rochester Jct., *Leon*; **SI**: Richmond (Beq).

## PHYLLOMYZA Fallén

*P. securicornis* Fall. Ithaca, J1 (Joh).

## DESMOMETOPA Loew

*D. latipes* Meig. New Baltimore, May 12 (Yg); Ithaca, Feb (Joh); NYC, Mar, Oct (Sturt).

*D. m-nigrum* Zett. NYC, Mar (Sturt).

## MALLOCHIELLA Melander

*M. glabra* Fall. Geneva, *Parr* (Joh); Ithaca, May-Oct (Joh, Mall).

*M. halteralis* Coq. Erie Co, May-Oct (MCV); NYC, Mar, Oct (Sturt); **SI** (Sturt).

## MEONEURA Rondani

*M. vagans* Fall. (*Agromyza tritici* Fitch). NYC, May (Sturt).

## FAMILY OCHTHIPHILIDAE

## OCHTHIPHILA Fallén

*O. polystigma* Meig. Erie Co, May-Aug (MCV); Niagara Falls, Je 22 (Jn); Ithaca, May; McLean, May, J1, Sep (Joh); Honeoye Falls, *Leon*; Beaver Kill, Aug (CuJr); NYC, Sep (Sturt); **SI** (Sturt); **LI**: Cold Sp. Harb., May (Sturt).

*O. juncorum* Fall. McLean, Ithaca (FrostSW).

## CHAMAEMYIA Panzer

*C. elegans* Panz. Dryden L., Tompkins Co, Je (Joh).

## LEUCOPIS Meigen

*L. bella* Lw. "NY" (Lw).

*L. nigricornis* Egger. McLean.

*L. simplex* Lw. Nassau, Aug, *Yg* (Ald); Erie Co, May-Je (MCV).

## LEUCOPOMYIA Malloch

*L. pulvinaria* Mall. Shushan, J1 (Mall).

FAMILY AGROMYZIDAE<sup>108</sup>

## ODINIA Robineau-Desvoidy

*O. maculata* Meig. (*ornata* Zett.). **LI**: Westbury (Champlain).

<sup>108</sup> The list for this family has been checked by Dr. S. W. Frost, who has made certain changes in nomenclature and added a number of records.

## TRAGINOPS Coquillett

*T. irrorata* Coq. Clinton Hgts., Je, *Yg*; NYC, May (Sturt).

## AGROMYZA Fallén

- A. aeneiventris* Fall. (*plumipes* Mall.). Lancaster, May, Aug (MCV); Albany, May.
- A. aeneiventris* var. *cunctans* Meig. Ithaca, Je 15.
- A. allecta* Mel. Erie Co, Je, Aug, Sep (MCV); Sheldrake, Trumansburg, Tarrytown, reared from *Arctium*, *Bidens*, and *Eupatorium* (FrostSW); Peru.
- A. angulata* Lw. (*atra* Meig.?). Ithaca (FrostSW); McLean, Sep (Joh).
- A. borealis* Mall. Ithaca, Florida, reared from *Impatiens* spp. (FrostSW).
- A. burgessi* Mall. Lancaster, Je (MCV).
- A. curvipalpis* Zett. (*Ophiomyia* Brochikow) var. *texana* Mall. McLean; Ithaca, FrostSW (Mel); Trumansburg, Florida, reared from aster, goldenrod, and *Eupatorium* (FrostSW); Peru; Gloversville.
- A. eupatoria* Mall. Ithaca (FrostSW).
- A. felti* Mall. Hudson Falls, Ithaca, May (Ald); Albany, May.
- A. flavonigra* Coq. NY (Mall).
- A. fragariae* Mall. Ithaca, Tarrytown, Florida, reared from *Rubus* (FrostSW).
- A. laterella* Zett. (*magnicornis* Lw., *grossicornis* Zett.). Ithaca, Claas (Joh); McLean; Beaver Kill, Aug (CnJr). In Johnson's *List of the Diptera of New England*, this species is listed as *A. morosa* Meig., with *luctuosa* Meig. and *laterella* Zett. as synonyms.
- A. longicornis* Lw. Niagara Falls, JI (MCV).
- A. longipennis* Lw. "NY" (Lw).
- A. n. sp.* near *luctuosa* Meig. Ithaca, reared from *Cyperus acuminatus* (FrostSW).
- A. maculosa* Mall. LI: Jamaica, Oct (Mall).
- A. marginata* Lw. McLean, JI, Sib (Joh).
- A. maura* Meig. Lewiston, Ithaca, LI, May (MCV).
- A. maura* var. *setifrons* Mel. Lancaster, May, Je (MCV); Ithaca (FrostSW).
- A. maura* var. *simplex* Lw. ASPARAGUS MINER. Ithaca (Joh); LI.
- A. melampyga* Lw. (*sorosis* Will., *flaviventris* Jn.). Niagara Falls, Ithaca, on *Plantago* and *Philadelphus*; Hudson Falls (Felt).
- A. nasuta* Mel. Ithaca, Slaterville, McLean, mining in stems of dandelion, Je (FrostSW); Peru.
- A. parvicella* Coq. Ithaca (FrostSW).
- A. parvicornis* Lw. (*dubitata* Mall.). Buffalo, Je; Lancaster, Aug MCV (Mall); Ithaca, on grasses (FrostSW).
- A. platyptera* Thomson var. *coronata* Lw. Niagara Falls, Je (Mall); Erie Co, May, Sep, Oct (MCV); Ithaca, reared from goldenrod, aster, and violet (FrostSW); Wilmington.
- A. platyptera* var. *jucunda* Wulp. Ithaca, reared chiefly from aster, goldenrod, and sunflower (FrostSW); McLean, JI, Sep (Joh).
- A. pusilla* Meig. (*trifolii* Burgess, *brassicae*). SERPENTINE LEAF-MINER. Middletown, Aug (Cy); Warwick, Aug (CU); Beaver Kill, Aug (CnJr); Ithaca (FrostSW); Freeville. One of the commonest leaf-miners, reared from fifteen host plants in NYS (FrostSW).



- A. posticata** Meig. (?*virgaureae* Kalt., *terminalis* Coq., *tacniola* Coq.). Oswego, J1, Niagara Falls, Je (Mall); Ithaca, common on goldenrod (FrostSW).
- A. pruni** Gross. "NY" (Mall).
- A. n. sp. near pruinosa** Coq. Waterville,, reared by I. M. Hawley from hop (FrostSW).
- A. reptans** Fall. var. *subnigripes* Mall. (*kincaidi* Mall., possibly also *nitida* Mall.). Ithaca, chiefly on Ambrosia, Urtica, and Helianthus (FrostSW).
- A. setosa** Lw. Ithaca, Ndm (Mel). Of doubtful occurrence in NY, most specimens probably being referable to either *maculosa* Mall. or *fragariae* Mall. (FrostSW).
- A. salicis** Mall. "NY" (Mall).
- A. schineri** Giraud. Rensselaer, May.
- A. scutellata** Fall. Lewiston, May; Erie Co, May (MCV).
- A. subvirens** Mall. Van Cort. Pk.; Ithaca (FrostSW).
- A. superciliosa** Zett. Buffalo, May (MCV).
- A. ulmi** Frost. Ithaca, Florida, mining leaves of American elm (FrostSW).
- A. virens** Lw. McLean, Sep, Sib (Joh); Ithaca (FrostSW).
- A. waltoni** Mall. Long L. (Mall).
- A. youngi** Mall. Albany, Ap, Yg (Mall).

## CERODONTA Rondani

(Ceratomyza Schiner; Ceradonta Rondani)

- C. femoralis** Meig. (*dorsalis* Lw.). Ithaca, Sep, Oct, miner on various grasses (FrostSW); **SI**, Oct (Sturt); **LI**: Cold Sp. Harb. (Sturt); North Fair Haven.

## PHYTOMYZA Fallén

- P. affinis** Fall. Ithaca (FrostSW).
- P. albiceps** Meig. (*bipunctata* Lw.). Ithaca, Florida, rather common on aster and Symphoricarpos (FrostSW); McLean, Sep (FrostSW).
- P. angelicella** Frost. From mines on *Angelica atropurpurea*, Ithaca (FrostSW).
- P. aquilegiae** Hardy. THE COLUMBINE LEAF-MINER. Ithaca, Tarrytown (FrostSW); Schenectady, Je 14 (Yg).
- P. auricornis** Frost. Ithaca, Jn, Dt (FrostSW).
- P. bicolor** Coq. Niagara Falls (Coq); Hamburg, May 28 (MCV); Ithaca, May 30 (Mel).
- P. chrysanthemi** (*Napomyza*) Kow. THE CHRYSANTHEMUM LEAF-MINER. Ithaca (FrostSW); Albany, Feb, Yg.
- P. ilicis** Curt. (*ilicicola* Lw.). **LI**: Westbury, Ap 7 (Felt).
- P. lactuca** Frost. Ithaca, on wild lettuce (FrostSW).
- P. loewii** Hendel (*clematidis* Lw.). Lancaster, May (MCV); Beaver Kill, Aug (CnJr).
- P. marginalis** Frost. McLean, Freeville, Ithaca (FrostSW).
- P. nitida** Mel. Florida, Ithaca, White Plains, Tarrytown (FrostSW). A fairly common leaf-miner on Nepeta, Ambrosia, Tanacetum, and Thalictrum.
- P. obscurella** Fall. var. *nigritella* Zett. Ithaca, leaf-miner on peach (FrostSW).
- P. plantaginis** Desv. Ithaca, on *Plantago* spp. (FrostSW).
- P. plumiseta** Frost. Ithaca, Florida, on Thalictrum (FrostSW).

## FAMILY HIPPOBOSCIDAE

## ORNITHOICA Rondani

- O. confluenta** Say. Albany, Oct, *Bish*, on *Strix varia varia*.

## ORNITHOMYIA Latreille

- O. anchineura** Speiser (*pallida* Say). Yankee L., Wurtsboro, Sullivan Co, Sep 8, on Maryland yellowthroat, *JPChapin* (Beq); **SI**, Sep 8, on Carolina wren, *JPChapin* (Beq); **LI**: Port Jefferson, JI, *RCMurphy* (Beq), on *Toxostoma rufum*.

## ORNITHOPONUS Aldrich

- O. americanus** Leach (*Olfersia*). Buffalo, Oct–Nov (MCV); Hammondsport, Nov; Baldwinsville, on *Bubo virginianus virginianus*, *AGWhitney* (Beq); Ithaca; Austerlitz, Oct, on *Bonasa umbellus* (Beq); Yankee L., Wurtsboro, Sullivan Co, Sep 6, on broad-winged hawk, *JPChapin*; **SI**, Nov 24 (Beq); **LI**: Freeport, Sep 13, on marsh hawk, *HThurston* (Beq); Orient Pt., May, Dec, *Schott* (Beq), on *Buteo borealis borealis*.

## OLFERSIA Wiedemann

(*Pseudolfersia* Coquillett)

- O. fumipennis** Sahlb. (*maculata* Coq.). Clove Val., near Poughkeepsie, May 2, on fish hawk, *JBBird* (Bird). **SI**, May 20, Sep 1, on fish hawk, *JPChapin* (Beq).

## MELOPHAGUS Latreille

- M. ovinus** L. NY (Fitch); Utica; Ballston Spa, Sep (NYS Rept., 15). On sheep.

## ORDER SIPHONAPTERA

Compiled by M. A. STEWART

FAMILY PULICIDAE (*sens. lat.*)

## ECHIDNOPHAGA Olliff

- E. gallinaceus** Westw. NYC (Fox), on rats.

## PULEX Linnaeus

- P. irritans** L. Springfield; Schenectady (Felt); **LI**: Brooklyn, on man.

## XENOPSYLLA Glink

- X. cheopis** Rothsch. NYC (Baker), on rats.

## CTENOCEPHALUS Kolenati

- C. canis** Curtis. Schenectady (Felt); NYC (Fox), on rats.  
**C. felis** Bouché. Ithaca, on a cat; **LI**.

## SPILOPSYLLUS Baker

- S. simplex** Baker. Ithaca, on cottontail rabbit (*Sylvilagus floridanus mearnsi* Allen).

## CTENOPHTHALMUS Kolenati

- C. gigas** Kby. Ithaca. On red squirrel (*Sciurus hudsonicus loquax* Bangs).  
**C. pseudagyrtis** Baker. Selkirk; Alpine; Ithaca. On *Parascalops breweri*, *Fiber zibethicus zibethicus*, *Peromyscus leucopus*, and *Arvicola pennsylvanicus*.  
**C. wenmanni** Rothsch. Ithaca. On *Peromyscus leucopus*.

## TRICHOPSYLLA Kolenati

- T. lotoris** Stew. Olcott. On raccoon (*Procyon lotor lotor*).

## CERATOPHYLLUS Curtis

- C. acutus** Baker. Ithaca.  
**C. arctomys** Baker. McLean; Keeseville; Ithaca; Stamford. On woodchuck (*Arctomys monax* L.) and red squirrel (*Sciurus hudsonicus loquax*).  
**C. fasciatus** Bosc. Ithaca. On rat and weasel (*Putorius noveboracensis*).  
**C. gallinae** Schr. Perry.  
**C. leucopus** Baker. Peterboro (Baker), on *Peromyscus leucopus*.  
**C. niger** Fox. Ithaca. On bluebird (*Sialia sialis* L.).  
**C. pseudarctomys** Baker. Ithaca. On flying squirrel (*Sciuropterus volans*).  
**C. riparius** J. & R. Ithaca, Olcott. From nests of bank swallow (*Clivicola riparia*) and kingfisher (*Ceryle alcyon*).  
**C. vison** Baker. Ithaca. On *Putorius noveboracensis*.  
**C. wickhami** Baker. Ithaca, Halsey Valley. On red squirrel, gray squirrel (*Sciurus carolinensis leucotis*), Northern flying squirrel (*Sciuropterus volans*), and *Peromyscus leucopus*.

## LEPTOPSYLLA Jordan and Rothschild

- L. herperomys** Baker. Ithaca, Alpine. From vacated kingfisher's nest, mouse nest, and *Peromyscus leucopus*.  
**L. musculi** Dugès. NYC (Fox), on rats.

## NEOPSYLLA Wagner

- N. similis** Chapin. Ithaca. From grass siftings.  
**N. striata** Stew. Ithaca. From nest of chipmunk (*Tamias striatus*).  
**N. testor** Rothsch. Lansingburg (Rothsch), from nest (of mouse?).

## MYODOPSYLLA Jordan and Rothschild

- M. insignis** Rothsch. Homer; Ithaca. On *Myotis lucifugus* and *M. sublatius*.

## ORDER HYMENOPTERA

Edited by J. CHESTER BRADLEY

The classification adopted for the order Hymenoptera is that devised by Messrs. Rohwer, Bequaert, and Bradley, and employed by Professor Comstock in his *Introduction to Entomology*. Departures from this classification are minor, and consist chiefly in the division of the families Argidae and Chalcididae into more than a single family each. Where the strict application of the rules of nomenclature have compelled us, we have used other names for certain groups than those employed in Professor Comstock's book, although it is to be hoped that a way may yet be found for the retention of those old and well-known names. In all such instances we have introduced both names, so that the student will not be misled or puzzled. One serious source of uncertainty exists concerning these old group names. Twelve years ago Messrs. Morice and Durrant published a study of an old and forgotten paper which has since come to be known as the "Erlangen List." It is expected that the International Commission on Nomenclature will rule as to whether this paper is to be allowed to affect our nomenclature. If so, numerous radical changes will occur, and all of these, or at least the most important, have been indicated in footnotes in the present list.

The present list may be looked upon as a fair representation of our knowledge of the hymenopterous fauna of the State, but as falling very far short of the actual fauna, particularly in certain groups. The sawflies, the gall-inhabiting cynipids, the Vespoidea, and the sphecoid wasps, probably list a large proportion of the species which actually occur here, but that can hardly be true of any of the parasitic groups.

The user of this list who wishes to discriminate between genera and species will encounter only one general manual.<sup>109</sup> In dealing with the sawflies, the vespoid and sphecoid wasps, the ants, and to a lesser extent the bees, this manual will be helpful, but it is not of much assistance in the parasitic groups. Where there exist recent revisionary papers, these have usually been referred to by footnote in connection with the appropriate group.

The list in each family that has not been credited to another compiler, has been compiled by the editor for the order, who, with an editor's prerogative, has modified the form of individual lists to conform to the general

<sup>109</sup> Guide to the insects of Connecticut. Part III. The Hymenoptera, or wasp-like insects, of Connecticut. By Henry Lorenz Viereck, with the collaboration of Alexander Dyer MacGillivray, Charles Thomas Brues, William Morton Wheeler, and Sievert Allen Rohwer. 1916. 824 p., 10 pl. (State of Conn., Public document No. 47. State Geological and Natural History Survey, Bulletin No. 22.)

plan, or has here and there added records or data of one sort or another, and who therefore must be held responsible if in so doing he has unintentionally introduced any error, or anything that would not meet the approval of each individual contributor.

SUBORDER **CHALASTOGASTRA** <sup>110</sup>

Compiled by S. A. ROHWER

FAMILY **XYELIDAE**SUBFAMILY **XYELINAE****XYELA** Dalman

**X. minor** Nort. Ithaca, May (CU); Karner, Je (NYS).

SUBFAMILY **MACROXYELINAE****MACROXYELA** Kirby

**M. aenea** (Nort.). **SI** (Ds).

**M. angulata** (MacG). Axton, type.

**M. distincta** MacG. Ithaca, Ap 13-23, *JOMartin*, type (MacG-CU).

**M. ferruginea** (Say). Ithaca, Ap (MacG-CU).

**M. infuscata** (Nort.). Ithaca, Ap 28, 29, May 12, 1899 (CU).

**M. obsoleta** MacG. Ithaca, *JOMartin*, type.

**PLEURONEURA** Konow

**P. bruneicornis** Roh. Gloversville, Ap 30, 1907, *Alex*, type.

**P. borealis** Felt. L. Clear, types.

**ODONTOPHYTES** Konow

**O. avingrata** (Dyar). Ithaca, Ap 29, *Kngt* (Bdy-CU); **SI**, Je 1; **LI**: Bedford Pk., May 25 (Dyar); Bellport, types. Larva feeds on immature leaves of hickory and butternut, appearing only early in spring.

<sup>110</sup> This list has been prepared from records obtained from specimens in the collection of the National Museum (US); from records sent by Dr. Leonard from the collections in Cornell University (CU) and New York State Museum (NYS); from records sent by Dr. Frison, taken from specimens in the MacGillivray Collection (MacG-III); from records forwarded by F. M. Schott (MacG-Schott); and from records taken from literature. I have not had an opportunity to study all the specimens from which the records were made. Those obtained from the collections of the National Museum are based, in the main, on identifications made by the writer. Nearly all of the other records are accepted as having been based on correct identifications, and are included with only the necessary nomenclatorial changes. The word "type" after a record does not necessarily mean "holotype," but is used in the sense of "one of the types." The systematic arrangement of the groups follows closely the classification proposed by the writer in 1911 (Proc. Ent. Soc. Wash., vol. 13, p. 215-226, 1911). It seems undesirable to make any radical changes from this arrangement in a list of this character. The list records 91 genera and 446 species and varieties from the State.



## FAMILY PAMPHILIIDAE

## ACANTHOLYDA A. Costa

(Subgenus ACANTHOLYDA A. Costa)

- A. atripes** (Cress.). Greenwood L., May 16 (MacG-Schott).  
**A. bicolorata** (Nort.). "NY", type.  
**A. ferruginea** Felt. Mt. Marcy, type.  
**A. marginiventris** (Cress.). "NY", type; Ithaca, Ap-May (CU, MacG-III).  
**A. modesta** MacG. **LI**: Wyandanch, type.

(Subgenus ITYCORISIA Konow)

- A. albomarginata** (Cress.). Ithaca, Ap 12-Aug 15 (CU).  
**A. angulata** MacG. Axton, Je, type; Ithaca, Je, Aug (MacG-III).  
**A. bruniceps** (Cress.). Ithaca, May 21, *PESmith* (CU).  
**A. luteomaculata** (Cress.). Axton, Je (MacG-III); Ithaca, Je-Aug (MacG-III, CU).  
**A. maculiventris** (Nort.). Ithaca, Ap 4 (MacG-III, CU); Karner, Je, 1901 (NYS).  
**A. ochrocera** (Nort.). Plattsburg, Je (MacG-III); Ithaca, Je 21 (CU); Karner, Jl, 1901 (NYS).  
**A. zappei** Roh. **LI**: Hicksville, Aug 24, 1916, *ABChamplain* (US).

## CEPHALEIA Jurine

(Subgenus CEPHALEIA Jurine)

- C. frontalis** (Westw.). Ft. Montgomery, Aug 8 (MacG-Schott).  
**C. semidea** (Cress.). Ithaca, May (US, CU), Jl (MacG-III). MacGillivray usually places this species in the subgenus *Caenolyda*, but I prefer to assign it to the subgenus *Cephaleia* (Roh).

## NEUROTOMA Konow

(Subgenus NEUROTOMA Konow)

- N. fasciata** (Nort.). "NY" (Nort); Ithaca, May (MacG-III), Jl (CU). Larva feeds in webs on wild cherry.  
**N. inconspicua** (Nort.). "NY" (Nort). Larva feeds in webs on plums.

## PAMPHILIUS Latreille

(Subgenus PAMPHILIUS Latreille)

- P. ocreatus** (Say). Keene Val., Je 25, 1894, *Dyar* (US); Castile, *EABradley* (Bdy-CU); Ithaca, May 15-22 (CU); Poughkeepsie, May, 1903 (NYS). Larva feeds on hazel and has been recorded from *Cornus* by Yuasa.  
**P. perseae** MacG. Ithaca, Je 15 (CU).  
**P. semicinctus** Nort. Stuyvesant Falls, Ap 29 (CU).  
**P. unalatus** MacG. Ithaca, type.

(Subgenus **ANOPLYDA** A. Costa)

- P. excavatus** (Nort.). "NY", *Dbl* (Kby 1882).  
**P. luteicornis** (Nort.). "NY", *Dbl* (Kby 1882).  
**P. pallimaculus** (Nort.). Plattsburg, Je 12-14, 1894, *Dyar* (US); Ithaca, May (MacG-III), Je 9-Jl 4 (MacG-CU).  
**P. perplexus** (Cress.). Ithaca, Je 27 (CU); Caroline to Harford, Je 15, *MacG&Bdy* (CU); **LI**: Maspeth, Je 6, *Ols* (MacG-Schott).  
**P. quebecensis** (Prov.). Oswego, Je (MacG-III); Ithaca, Je (MacG-III, CU).  
**P. rufocinctus** (Cress.). Oswego (MacG-III); Taughannock Falls, May, *Crampton* (CU). MacGillivray assigns this species to the subgenus *Pamphilus*, but an examination of the type caused me to place it in the subgenus *Anoplyda* (Roh).  
**P. scriptus** (Say). Oswego, Je 9, 1896 (MacG-III); Ithaca, Je (MacG-III); Caroline to Harford (MacG-III, CU); Taughannock, Ap 15 (CU).

FAMILY **CEPHIDAE**<sup>111</sup>**ADIRUS** Konow

- A. trimaculatus** (Say). "NY" (Nort); Slaterville (Bdy); Ithaca, Taughannock, Jl (Bdy-CU); **SI**, Jl (Bdy-Ds); **LI**: Brooklyn, Jl (Sf-BM); Yaphank, *Eng*.

**JANUS** Stephens

- J. integer** (Nort.). CURRANT-STEM GIRDLER. Childwold, Aug (Felt); Sodus, May (CU Econ); S. Byron, May (Lint-CU); Corning (Lint); Ithaca, Ap 12-Je 20 (Bdy-CU, MacG-III); Waverly, Oct (CU Econ); Ghent, Je (Lint); Troy (Felt).  
**J. abbreviatus** (Say). Ithaca, Jl-Aug (Bdy-CU); Ellis to Slaterville, Je (Bdy-CU). Larva feeds in stems of willow and has been recorded also from poplar.

**CEPHA** Billberg(*Trachelus* Jurine)

- C. tabida** (Fab.). BLACK GRAIN-STEM SAWFLY. Milo (DTRies); **LI**: Yaphank, May, *Eng* (Sf-BM). Larva feeds in stalks of wheat, rye, and barley, and perhaps also in certain grasses. Introduced from Europe.

**CEPHUS** Latreille<sup>112</sup>

- C. pygmaeus** (L.). WHEAT-STEM SAWFLY. Recorded from the following counties: Oswego, Onondaga, Wayne, Monroe, Orleans, Niagara, Genesee, Erie, Wyoming, Livingston, Ontario, Yates, Schuyler, Steuben, Chemung, Tompkins, Seneca, Cayuga, Westchester (DTRies&Cy). In addition it has been looked for but not found in Chautauqua, Tioga, Broome, Cortland, and Ulster Counties (DTRies&Cy). Larvae feed in stems of wheat, and infestation up to ninety per cent occurs (Ries, *Journ. Agr. Research*, 1926, 32: 284). Introduced.

<sup>111</sup> If the Erlangen List is accepted, this family name will have to be changed to *Astatidae*, and the genus *Cephus* Latreille will fall as a synonym of the genus *Astatus* Jurine (Panzer).

<sup>112</sup> This name will be supplanted by *Astatus*, if the Erlangen List is accepted.

## FAMILY XIPHYDRIIDAE

## XIPHYDRIA Latreille

- X. attenuata** Nort. Rochester Jct., Je, *Leon* (Roh-CU); Niagara Falls, Je (Roh-CU); Ithaca, Je-Aug (MacG-III); **LI**: North Beach, *Schott* (Sf-BM). Larva feeds in *Tilia americana*.
- X. erythrogastra** Ashm. Niagara Falls (Roh-CU); Lancaster (MCV-US); Ithaca, Je-Jl (Roh-CU); Larva feeds in *Carpinus caroliniana*.
- X. maculata** Say. Newport, Je, 1899; Castile, *EABradley* (Bdy-CU); Portageville, Je (Roh-CU); Utica, *Pergande* (US); Albany, Jl, 1909; Nassau, Jl, 1902 (NYS); Ft. Montgomery, Je (Schott); **LI**: Yaphank (Roh-CU). Larva feeds in *Acer*.
- X. hicoriae** Roh. Syracuse, *Blkm* (US); **LI**: Westbury, *Champlain* (US). Larva feeds in *Hicoria*.
- X. mellipes** Harr. (*provancheri* Cress.). Cranberry L., Je 9, 13, 16, 1909, *Drk* (US); Saranac Inn, Feb 11, 1901, *Drk* (US, NYS Col. For.); Rock City, Jl (Roh-CU); Ithaca, May-Je (US, CU); **LI**: Rockaway Beach, *Eng* (Sf-BM).
- X. tibialis** Say. Ithaca, Je 15 (Roh-CU).
- X. walshii** Westw. "NY", type locality. Perhaps a synonym of *X. mellipes* Harr.

FAMILY SIRICIDAE<sup>113</sup>

## SUBFAMILY SIRICINAE

## SIREX Linnaeus

(*Paururus* Konow)

- S. edwardsii** Brullé (*zonatus* Nort.). "NY" is one of the localities from which the types of *zonatus* Nort. were taken. Ithaca (MacG-III); **LI**: Brooklyn, Sep, *Eng* (BM); Rockaway Beach, Oct, *Eng* (BM).
- S. juvencus** L. race *cyaneus* Fab. "NY" (Nort). Mt. Whiteface, 2000-4000 ft., Aug 24 (Bdy-CU); Saranac L. (Ds).
- S. nigricornis** race *nigricornis* Fab. Ithaca (MacG-III), Oct 26, 1917 (Bdy-CU); Binghamton, *Franck* (Sf-BM).

## UROCERUS Geoffroy

- U. flavicornis** Fab. Ithaca (Bdy-CU).
- U. albicornis** (Fab.). Cranberry L., Aug, 1915 (Bdy-CU); Brant L., Aug, *Doll* (Sf-BM); Carthage (Felt); Ithaca, Ap 15-Sep 3 (Bdy-CU); Watervliet, Sep 25 (Felt); West Pt., Je, *Sf* (BM); **SI** (Ds).
- U. cressoni** var. *cressoni* Nort. Adirondacks, Aug (MacG-III); Ithaca, Aug 22, *Joh* (Bdy-CU); Albany (Nort); White Plains, Aug, *Schott* (BM); **LI**: Prospect Pk., Jl (Sf-BM); Yaphank, Aug, *Eng* (BM).
- U. cressoni** var. *tricolor* Prov. Adirondacks, *Houghton* (Bdy-CU); Ithaca, Aug 7, 1907 (Bdy-CU); Troy, Jl 18 (Felt).
- U. taxodii** Ashm. **LI**: Rockaway Beach, Jl 3, 1909, *Ds* (Bdy). Known only from Ga. and Fla., where it breeds in cypress; this record may be only of accidental occurrence.

<sup>113</sup> The Siricidae of North America. By J. C. Bradley. Journ. Ent. and Zool., vol. 5, p. 1-30. 1913.

## SUBFAMILY TREMICINAE

## TREMEX Jurine

**T. columba** race **columba** (L.). Common and widely distributed; representative localities are: Wilmington, 1000–2200 ft., Aug; New Russia, Aug 18 (Bdy); Newport, Ap, Aug 30 (Felt); Ogdensburg, Aug (Felt); Alder Cr., Aug (Felt); Syracuse, Sep; Perry; Rochester Jct., Jl, *Leon* (Bdy); Cattaraugus, Sep; Fredonia, Sep 15 (Felt); Castile, *EABradley* (Bdy-CU); Ithaca, Jl-Sep; Trumansburg (Bdy-CU); Taughannock; Kinderhook (Bdy-CU); Albany, May–Aug (Felt); Mansville, Aug (Felt); Addison, Sep; Athens, Oct 15 (Felt); Ellenville (Felt); NYC (Felt); **SI** (Ds); **LI**: Brooklyn, *Eng* (BM).

**T. columba** race **sericeus** Say. Rochester Jct., Jl 26, male, *Leon* (Bdy).

FAMILY CRABRONIDAE <sup>114</sup>

(*Cimbicidae* auct.)

## SUBFAMILY CRABRONINAE

(*Cimbicinae* auct.)

CRABRO Geoffroy <sup>115</sup>

(*Cimbex* Olivier and auct.)

**C. americanus** (Leach) var. **albus** (Nort.). Ithaca (CU).

**C. americanus** var. **americanus** (Leach). ELM SAWFLY. Keene Val., Jl (NYS); Axton, Je (MacG-III); New Russia, Sep (Felt); Blue Ridge, Jl (Felt); Newport, Je (NYS); Elma (NYS); Jamestown, Collins, Windsor (CU Econ); Ithaca, May (CU); Albany, Je (NYS); White Sulphur Sps. and Montgomery (CU Econ).

**C. americanus** var. **dahlbomi** (Guér.). "NY" (Nort); Ithaca, Je (MacG-III).

**C. americanus** var. **decim-maculatus** (Nort.). Ithaca (CU).

**C. americanus** var. **laportei** (Lep.). "NY" (Nort); Ithaca, May, Aug (CU).

**C. americanus** var. **luciferus** (Klug). "NY" (Nort); Ithaca, Je (CU).

**C. americanus** var. **nortoni** (MacG.). Ithaca, Je–Jl (MacG-III, CU); Van Cort. Pk., Je (NYS), Jl (CU).

TRICHIOSOMA Leach <sup>116</sup>

**T. bicolor** Nort. Saranac Inn, Je (MacG-III, as *confusum* MacG); Axton, Je (M&H-CU).

**T. crassum** Kby. Ithaca, Je (MacG-III).

**T. cerasi** (Fitch). Bred from cocoon on cherry by Fitch and described in the genus *Abia*; also recorded from Canton, Ap (Felt). Fitch's type has not been

<sup>114</sup> In Comstock's *Introduction to Entomology* this is termed *Cimbicidae*. In MacGillivray's classification it forms the subfamily *Cimbicinae* of the Tenthredinidae. (Bdy.)

<sup>115</sup> Bradley (Trans. Ent. Soc. Lond., p. 66, 1919) has pointed out that the generic name *Crabro* was first used by Geoffroy for the group of insects which has long been known under the name *Cimbex* Oliv. *Cimbex* is synonymized with *Crabro* Geoffroy, and the wasps which have for a long time been known under the generic name *Crabro* Fabricius are assigned to other genera. (Roh.)

<sup>116</sup> The species recorded by MacGillivray (New York State Mus. Bul. 47, 1901, p. 584) under the name *angulatum* Kirby from Saranac Inn, seems not to have been described.

studied, but the description indicates that this species belongs to the genus *Trichiosoma* and it seems possible that it may apply to some other species more recently described.

**T. spicatum** MacG. Ithaca, May, McLean, Je 13 (CU).

**T. triangularum** Kby. Keene Val., Dyar (US); Saranac Inn, Je (NYS). Larvae recorded as feeding on willow and wild cherry.

#### SUBFAMILY ZARAEINAE

##### ZARAEA Leach

(Subgenus **ZARAEA** Leach)

**Z. americana** Cress. L. Tear, J1 28, 1920 (US); **LI**: Jamaica, Ap 23, 1910 (US); Flatbush, Ap 20 (MacG-Schott).

**Z. inflata** Nort. Geneseo, J1 (Felt); Warner, Je (Felt); **LI**: Garden City, Je 8, 1911, *Felt* (NYS). Larva recorded as destroying the foliage of *Lonicera*.

(Subgenus **ABIA** Leach)

**Z. lonicerae** (L.). **LI**: Bayside (US). The record of this European species is based on two specimens reared from cocoons on honeysuckle.

#### FAMILY ARGIDAE<sup>117</sup>

(*Hylotomidae* Ashmead)

#### SUBFAMILY ARGINAE<sup>117</sup>

(*Hylotominae* Ashmead and MacGillivray)

##### ATOMACERA Say

**A. debilis** Say. Mt. Marcy, J1, 1913 (NYS).

**A. decepta** Roh. "NY" (type-US).

**A. ruficollis** Nort. **LI**: Wyandanch, Je 18 (MacG-Schott); Sea Cliff (MacG-CU).

##### ARGE Schrank<sup>118</sup>

(*Hylotoma* Latreille)

**A. abdominalis** (Leach). **LI**: Massapequa, May 4 (MacG-Schott); Farmingdale, Je 14, *Morrow* (Bdy-CU).

**A. coerulea** (Nort.). Ithaca, J1 (MacG-III); **LI**: Centerport (CU).

**A. clavicornis** (Fab.). Plattsburg (Dyar); Rock City, Je 8 (Bdy-CU); Ithaca, May, J1 (MacG-CU); McLean, J1 29 (Bdy-CU); Albany (Nort).

**A. dulciaria** (Say). "NY" (Nort).

<sup>117</sup> If the Erlangen List is accepted, these names will be replaced by *Cryptidae* and *Cryptinae*, respectively, and the genus name *Arge* by *Cryptus* (Bdy).

<sup>118</sup> The species of this genus are not satisfactorily defined, and, until a revision has been prepared, they cannot be satisfactorily determined. Larvae widely different in appearance produce adults which, according to the published keys, have been assigned to one species, and larvae which are superficially very similar produce adults which are very different in many characters. In this list no effort has been made to correct synonymy or verify identifications. (Roh.)



- A. erythrosoma** (Leach). "NY" (Nort).  
**A. humeralis** (Beauvois). "NY" (Nort); Ft. Montgomery, Aug 16 (MacG-Schott).  
**A. macleayi** (Leach). Plattsburg, Keene Val., larvae reared by Dyar; Old Forge (NYS); Ithaca, J1 (MacG-III); Caroline to Harford, Je 15, *MacG&Bdy* (Bdy-CU); McLean, May 30 (Bdy-CU); Karner, J1 (NYS); Ft. Montgomery, J1 19 (MacG-Schott). The larva of this species is recorded as feeding on Azalea, willow, black birch, white birch, hazel, mountain ash, wild cherry, and honeysuckle.  
**A. pectoralis** (Leach). Keene Val., larva on *Betula papyrifera* (Dyar 1895); Loon L., J1 (Felt); Birch I., Upper Saranac (Felt); Plattsburg, larva on *Betula lenta* (Dyar 1895); Brille, Je 13, 1891 (CU); Essex Co, Je 1895, larva on birch (NYS); **SI** (Ds).  
**A. rubiginosa** (Pal. de Beauv.). "NY" (Nort); **LI**: Roosevelt, J1 22 (MacG-Schott).  
**A. rubra** (Klug). Elizabethtown, Aug, 1904 *Yg* (NYS); Essex Co, J1, 1895, larva on oak, *Yg* (NYS); Ithaca, Je 10-J1 19 (MacG-CU); **LI**: Wyandanch, J1 14 (MacG-Schott). Larva recorded as feeding on *Crataegus*.  
**A. virescens** (Klug). Ithaca, Je 19-Aug 8 (MacG-CU); Spencer L., Je 30 (Bdy-CU).

SUBFAMILY STERICTIPHORINAE<sup>110</sup>

(Schisocerinae Ashmead and MacGillivray)

## STERICTIPHORA Billberg

(Schisocera Lepeletier)

- S. sericea** (Nort.). Ithaca (MacG-III, US).  
**S. prunivora** (Dyar). **LI**: Bellport, Jefferson Highlands (Dyar). Larva recorded from *Prunus serotina* and *P. pennsylvanica*.  
**S. lineata** (Roh.). **LI**: Richmond Hill, Aug 8, 1911 (US).  
**S. zabriskiei** (Webster & Malley). **LI**: Flatbush, J1 4, 1895, Aug 17, 1896, *Zab* (US); Huntington, Aug (MacG-Schott); Bellport (Dyar). Larva feeds on *Portulaca oleracea*.  
**S. cellularis** (Say). "NY", type locality of a synonym.  
**S. plumigera** (Klug). "NY", type locality.

FAMILY DIPRIONIDAE<sup>120</sup>

(Lophyridae Ashmead, Lophyrinae MacGillivray)

## DIPRION Schrank

(Lophyrus Latreille)

- D. simile** (Hartig). INTRODUCED PINE SAWFLY. Seven Sps. Farm, Mt. Kisco, Feb, 1925 (US); Pleasantville, Sep, larvae injurious (Roh); **LI**: Flushing (Middleton). An important enemy to pines, which has been introduced from Europe.

<sup>110</sup> The species of this subfamily have been recently rearranged and a manuscript revision prepared. The present list gives only the specific names which will be accepted in this revision. (Roh.)

<sup>120</sup> In Comstock's *Introduction to Entomology* this family is included as part of the family Argidae. If the Erlangen List names are adopted, *Diprionidae* and *Diprion* will be replaced by *Pteronidae* and *Pteronus*, respectively. (Bdy.)

## NEODIPRION Rohwer

- N. abietis** (Harr.). SPRUCE SAWFLY. Salem, Oct (NYS); Johnsbury, Ap (NYS). Larva a common defoliator of spruce and fir.
- N. fabricii** (Leach). Karner, Aug, 1902 (NYS); Nassau, May, 1902 (NYS); **LI**: Bellport, larva on pitch pine (Dyar). Larva on *Pinus rigida*. This species was originally described from Ga., and it is very probable that the above records are based on erroneous determinations.
- N. lecontei** (Fitch). RED-HEADED PINE SAWFLY. "NY", type locality; Axton, Aug (Felt); St. Huberts, Jl (Felt); Cazenovia, Aug 21 (NYS); Ithaca (MacG-III); Hyde Pk. (Middleton); Karner, May, 1902 (NYS); Poughkeepsie, Oct, 1895 (NYS); **LI**: Westbury, Jl, Setauket, Oct (Felt). A common enemy of young pines, attacking many species.
- N. pinetum** (Nort.) (*abbottii* auct. not Leach). Saranac Inn, Sep (NYS); Hemlock L., Aug, Big Moose, Sep (Felt); Johnsbury (Felt); Olmstedville (Felt 1910); Ballston Spa, Oct (Felt); Mt. Kisco, Sep (Felt); Karner, Aug, 1902 (NYS); Albany, Jan, 1902 (NYS). A rather common defoliator of hard pines.

## MONOCTENUS Dahlbom

- M. juniperinus** MacG. Ithaca, reared from larvae on *Juniperus virginiana* by R. L. Junghanns (type).
- M. fulvus** (Nort.). "NY" (Kby 1882, Brit.Mus.).

## FAMILY TENTHREDINIDAE

## SUBFAMILY ALLANTINAE

(*Emphytinae* MacGillivray)

## STRONGYLOGASTROIDEA Ashmead

- S. apicalis** (Say). Axton, Jl (CU); Speculator, Aug, *Yg* (NYS); Old Forge, Jl, *Yg* (NYS); Cranberry L., Jl 2, *Htl'y* (Roh-NYS Col. For.); Ithaca, May, *Dyar* (US, CU); Caroline to Harford, May (CU); McLean, Aug 3 (Bdy-CU); Albany, Nassau, Je, *Yg* (NYS); "**LI**" (US).
- S. epicera** (Say). Old Forge, Jl, *Yg* (NYS); Hamburg, May, *MCV* (US); Ithaca, May-Je (US, CU, MacG-III); McLean, Je 9 (Bdy-CU); Poughkeepsie, Je, *Yg* (NYS); **LI**: Sea Cliff, *Bks* (US).
- S. pallidicornis** (Nort.). Caroline to Harford, Jl-Aug (CU); Ithaca (US, CU); **SI** (Ds); **LI**: *Ashm* (US); Brooklyn, *Akhurst* (Nort); Flatbush, Jl, *Zab* (US).
- S. potulenta** MacG. Poughkeepsie, type.
- S. rufocincta** (Nort.). Ithaca (MacG-III); McLean, Jl 18 (Bdy-CU); **LI**: Sea Cliff, *Bks* (US).
- S. rufocincta** var. *virginica* Roh. Ithaca, *Bks* (US).
- S. rufocinctana** MacG. **LI**: Richmond Hill, type.
- S. rufocula** MacG. Ithaca, Je, McLean, May, type.
- S. rufula** MacG. Ithaca, type.
- S. spiculata** MacG. Axton, Je (MacG-III); Ellenville, type; Caroline to Harford, Je (MacG-III).

- S. terminalis** (Say). Axton, Je (MacG-III); Newport, May (NYS); Upper Ausable L., JI (US); Ithaca, JI (US); Caroline to Harford, Je (MacG-III); Trenton Falls, *Dbf* (Kby); Nassau, May (NYS); **LI** (US); Flatbush, Je, *Zab* (US).  
**S. unicincta** (Nort.). Tompkins Co, Je (MacG-III); Albany, Je (NYS); **LI** (US).  
**S. unicinctella** MacG. Ithaca, Aug, type.

## DIMORPHOPTERYX Ashmead

- D. errans** Roh. Ithaca, Je (US); **LI**: Bellport, Je, *Dyar* (US).  
**D. ithacus** MacG. Ithaca, Je, type.  
**D. pinguis** (Nort.). Speculator, JI, *Yg* (NYS).

## MACREMPHYTUS MacGillivray

- M. semicornis** (Say). Ithaca, JI-Aug (US, MacG-III, CU); Ellis, Je (MacG-III).  
**M. tarsatus** (Say). Syracuse, JI (NYS); Rochester, Sep, larvae abundant on *Cornus mascula*, *JHDodge* (NYS, Ent. Rept. 1910, p. 59); Ithaca, Je-Aug (US, CU, MacG-III); Caroline to Harford, JI (MacG-III); Old Chatham, Sep (NYS); Poughkeepsie, May-Je (NYS).  
**M. varians** (Nort.). Plattsburg, Je (Dyar-US); Ellenville, Je (US, CU); Ithaca, Je-JI (US, CU, MacG-III); Ft. Edward, larvae feeding on *Cornus stolonifera*, *MWBandenber* (NYS, Ent. Rept. 1889, p. 188).  
**M. versicolor** (Nort.). Boonville, Sep (NYS); Tompkins Co, JI (MacG-III); Slaterville to Caroline, Je (MacG-III); Dryden, JI (MacG-III); McLean, Sep (Bdy-CU); Poughkeepsie, May, *Yg* (NYS).

## ERIOCAMPA Hartig

- E. juglandis** Fitch. "NY", larva on butternut (NYS). It is very probable that this is the same as *rotunda* (Nort.).  
**E. rotunda** (Nort.). Ithaca, May (MacG-III, CU).

## PSEUDOSIOBLA Ashmead

- P. cephalanthi** Roh. Van Cort. Pk., Je 2, 1895, larvae on *Cephalanthus occidentalis* (Dyar-US), types.  
**P. excavata** (Nort.). **LI** (US).

## AMETASTEGLIA A. Costa

- A. glabrata** (Fall.). Ogdensburg, JI (NYS); Old Forge, Aug (CU); Ithaca, May-Aug (US, CU, MacG-III); Freeville, JI (CU); McLean, (CU, US); Albany, Karner, May (NYS); Poughkeepsie, JI (NYS); **LI**: Flatbush, May (US). Larva feeds on dock, and pupates in brashy wood, fallen fruit, or similar substances.  
**A. equiseti** L. var. *bizonata* (Zett.). Syracuse, Je, Aug, *B&S* (US).

## POLYTAXONUS MacGillivray

- P. robustus** (Prov.). Buffalo, Je, *MCV* (US); **LI**: Yaphank (US).

## UNITAXONUS MacGillivray

**U. repentinus** MacG. Ithaca, type.

**U. rumicus** MacG. Ithaca, type.

## PARATAXONUS MacGillivray

**P. multicolor** (Nort.). Axton (US, MacG-III); McLean, JI (MacG-III, Bdy-CU); Ellis, Je (MacG-III); Slaterville, May, JI (CU); **LI**: (US); Huntington, Je (MacG-Schott).

**P. multicolor** var. **erythrogaster** (Roh.). **LI** (US).

## MONOSOMA MacGillivray

**M. inferentia** (Nort.). Axton, JI (US); Keene Val., Dyar; Castile, *EABradley* (Bdy-CU); Ithaca, May (US, CU, MacG-III); McLean, May (US, CU, MacG-III). Larva feeds on elder.

## ALLANTUS Panzer

(*Emphytus* auctt.)

(Subgenus **EMPHYTUS** Klug)

**A. cinctus cinctus** (L.). This subspecies has often been intercepted at quarantine in NYC, but, so far as is known, has not yet become established. It is European and feeds on leaves of roses, pupating in the pith of the stalk.

**A. cinctus cinctipes** (Nort.). Ogdensburg, JI, *Yg* (NYS); Ilion, May, *Yg* (NYS); Poughkeepsie, JI, *Yg* (NYS); **SI** (Ds). This subspecies has sometimes been considered synonymous with the European *cinctus*. The feeding habits of the larva are similar to those of *A. cinctus cinctus*.

**A. haustus** MacG. Grand I., type.

**A. heroicus** MacG. Hamburg, type.

**A. hiatus** MacG. Ithaca, type.

**A. mellipes** Nort. Ithaca, May (CU); Clinton Mts., Ap, *Yg* (NYS); Albany, Je, Poughkeepsie, May, *Yg* (NYS).

**A. yuasi** MacG. Ithaca, type.

(Subgenus **EMPHYTINA** Rohwer)

**A. apertus** (Nort.). Plattsburg, Je (US); Gloversville, JI (NYS); Ithaca (US, NYS, CU); Caroline to Harford (CU); W. Danby (CU); Albany, May (NYS).

**A. pallipes** (Spin.) (*canadensis* Kby.). Plattsburg (Dyar-US); Nassau, *Felt* (NYS); Rhinebeck, *Pratt* (Proc. Ent. Soc. Wash., vol. 4, p. 302, 1896). The larva feeds on the foliage of pansies and violets.

**A. inornatus** (Say). Speculator, JI, *Yg* (NYS); Karner, Albany, May, *Yg* (NYS); Van Cort. Pk., May (CU); **LI** (US).

**A. tener** (Fall.) (*vanduzeei* Roh.). Lancaster, *MCV* (US). This European species is now known to occur in a number of localities in the United States.

## SUBFAMILY DOLERINAE

## DOLERUS Panzer

- D. abdominalis* Nort. Fulton Co, May (MacG-III); Ithaca, Ap (US).  
*D. acritus* MacG. McLean, Ithaca, types.  
*D. apricus* Nort. Plattsburg, Je (Dyar-US); Speculator, Je, Battenville, May, *Yg* (NYS); Ithaca, May-Je (CU, US).  
*D. aprilis* Nort. Ithaca, May (MacG-III); Albany, Karner, May, *Yg* (NYS); Chatham, Aug (MacG-III); Poughkeepsie, May, *Yg* (NYS); White Plains (US); **SI** (US, Ds).  
*D. apriloides* MacG. Ithaca, Je, type.  
*D. bicolor* (Pal. de Beauv.). Saranac Inn (MacG-III, NYS); Ithaca, Je (MacG-III); Albany, Ap-May (NYS); **LI** (US).  
*D. cohaesus* MacG. Otto, *Comstock*, type.  
*D. collaris* Say. Ithaca, May (US, MacG-III); Karner, Ap (NYS).  
*D. conjugatus* MacG. Fulton Co, Cy, types; Otto, *Comstock*, type.  
*D. dysporus* MacG. Ithaca, type.  
*D. icterus* MacG. Saranac Inn, *Ndm*, type.  
*D. inspectus* MacG. Ithaca, type.  
*D. luctatus* MacG. Fulton Co, Ap (US); Ithaca, type.  
*D. maculicollis* Nort. **LI**: Brooklyn (Nort).  
*D. minusculus* MacG. Ithaca, type.  
*D. neoagcistus* MacG. Southfields, *Schott*, type.  
*D. neocollaris* MacG. Fulton Co, Cy, type; Ithaca, type.  
*D. neosericeus* MacG. Ithaca, type; Southfields (MacG-III); **SI** (US).  
*D. parasericeus* MacG. Ithaca, type.  
*D. polysericeus* MacG. Ithaca, type.  
*D. refugus* MacG. Ithaca, *Comst*, type.  
*D. sericeus* Say. Auburn, May (NYS); Ithaca, Ap-May (US, MacG-III); Albany, Ap, Karner, May (NYS); Nassau, May (NYS).  
*D. similis* Nort. Newport, May, *Yg* (NYS); Mallory, Je (US); Ithaca, Jl (US, MacG-III); Albany, Je, Karner, Jl, *Yg* (NYS); Chatham, Aug (MacG-III); Ardsley, Je (MacG-Schott); **SI**, Ap (Ds).  
*D. stugnus* MacG. Ithaca, type.  
*D. thoracicus* (Pal. de Beauv.). "NY" (Kby).  
*D. unicolor* (Pal. de Beauv.). Ithaca, Mar-May (US, MacG-III); Schenectady, May (NYS); Albany, Nassau, Poughkeepsie, Ap (NYS); Southfields, Ap (MacG-Schott); **SI**, Ap (Ds).

## LODERUS Konow

- L. albifrons* (Nort.). Newport, May, *Yg* (NYS); Axton, Je (MacG-III); Ithaca, May-Je (CU, MacG-III); McLean, May (MacG-III); Albany, May, *Yg* (NYS); **SI**, Je (Ds); **LI**: Yaphank, May, *Ols* (MacG-Schott).



## SUBFAMILY TENTHREDININAE

## LEUCOPELMONUS MacGillivray

**L. confusus** (Nort.). Ithaca, May 28 (CU).

## BIVENA MacGillivray

**B. delta** (Prov.) (*maria* MacG.). Ithaca, J1 (US, CU); W. Danby, May (CU); McLean, May (CU); Van Cort. Pk., J1 (CU); **LI**: Astoria (MacG-Schott).

**B. quattrodecimpunctata** (Nort.). L. Tear, J1 (US); Ithaca, May-Je (CU). Larva feeds on *Podophyllum peltatum*.

**B. semilutea** (Nort.). Ithaca, May (CU).

## LAGIUM Konow

**L. atrovioleaceum** (Nort.). Castile, *EABradley* (Bdy); Ithaca, J1 (CU); Southfields, Ap (MacG-Schott).

**L. planifrons** Roh. **LI**: Gardiners I., Je 11 (MacG-Schott).

## PACHYPROTASIS Hartig

**P. omega** Nort. Saranac Inn, *Ndm* (MacG); Ithaca (CU).

## RHOGOGASTER Konow

**R. evansii** (Harr.). Mt. Skylight, Je (US); Cranberry L., *Htly* (US).

## ZALAGIUM Rohwer

**Z. cinctulum** (Nort.). **LI** (US).

**Z. clypeatum** Roh. **LI** (US).

## MACROPHYA Dahlbom

**M. alba** MacG. Ithaca, May (CU, US); Van Cort. Pk., Je, *Dyar* (US); **LI**: Forest Hills, May, *Ols* (US); Maspeth, May, *Ols* (MacG-Schott).

**M. albomaculata** (Nort.). Ithaca, McLean, May (CU).

**M. bilineata** MacG. Ithaca, Je 28 (CU).

**M. cassandra** Kby. "NY", *Dbl* (Kby); Ithaca, J1 (CU).

**M. confusa** MacG. Ithaca, Je 10 (CU).

**M. contaminata** Prov. **LI** (US).

**M. crassicornis** Prov. Ithaca, J1 (CU); **LI** (US).

**M. dejecta** (Nort.). **LI**: Brooklyn, *Jakhurst* (Nort).

**M. dyari** Roh. Ithaca (MacG-III); Van Cort. Pk., *Dyar* (US), type.

**M. epinota** (Say). Old Forge, J1, *Yg* (NYS); Poughkeepsie, J1, *Yg* (NYS); **LI**: Flatbush, May (MacG-Schott). Larva feeds on *Sambucus canadensis* and *S. racemosa*.

- M. externa* (Say). Ithaca, May-Je (CU); Albany (NYS); Bronx Pk., Jl, *Dyar*; **LI**: Bellport, *Dyar* (Ashm, Can. Ent., vol. 30, p. 174, 1898). Larva feeds on hickory.
- M. fascialis* Nort. Big Moose, Jl, *Yg* (NYS); Mt. Marcy, Jl (US).
- M. fistula* MacG. Ithaca, type.
- M. flaccida* MacG. Ithaca, type.
- M. flavicoxae* (Nort.). Newport, Je, *Yg* (NYS); Axton, Jl (CU); Castile, *EABradley* (Bdy); Ithaca, May-Je, McLean, May-Jl 20 (Bdy-CU); Albany, Nassau, May, *Yg* (NYS); Morrisville, May (CU); Poughkeepsie, May, *Yg* (NYS).
- M. ficta* MacG. Ithaca, type.
- M. formosa* (Klug). Old Forge, Je, *Yg* (NYS); Poughkeepsie, Jl, *Yg* (NYS); **LI** (US).
- M. goniphora* (Say). Poughkeepsie, Jl, *Yg* (NYS); Ft. Montgomery, Je (MacG-Schott); Van Cort. Pk., Je, *Dyar* (US); **LI** (US).
- M. intermedia* (Nort.). Ithaca, Jl (CU); Poughkeepsie, May, Jl, *Yg* (NYS); **LI**: Huntington, Je (MacG-Schott).
- M. lineata* Nort. Johnstown, May (NYS); Ithaca, May, Jl (US, CU); Albany, May (NYS). Larva feeds on *Aster prenanthoides*.
- M. minuta* MacG. Plattsburg, *Dyar*, type; Ithaca, May 28 (CU).
- M. mixta* MacG. "NY" (US).
- M. nigra* (Nort.). Johnstown, Aug (NYS); Newport, Je (NYS); Ithaca, Je (US); Poughkeepsie, Jl, *Yg* (NYS); **LI**: Flatbush, Je, *Zab* (US).
- M. pannosa* (Say). "NY" (Nort).
- M. propinqua* Harr. Ithaca, Je (CU).
- M. proximata* Nort. Albany, Je, 1909 (NYS).
- M. pulchella* (Klug). Ithaca, Jl (CU); Albany, Je, *Yg* (NYS); Big Ind. Val., Je, *Pears* (US); Kingston, Aug, Poughkeepsie, May, *Yg* (NYS). Larva feeds on *Solidago juncea* and *Rudbeckia laciniata*.
- M. punctata* MacG. Plattsburg, type.
- M. simillima* Roh. Ithaca, May 7, 1897 (US).
- M. succincta* Cress. Ithaca (US, CU).
- M. tibiator* Nort. Newport, May, *Yg* (NYS); Ithaca, May-Je (CU); Albany, Je, *Yg* (NYS); Van Cort. Pk., *Dyar*; **LI**: Rockaway Pk., May (MacG-Schott). Larva feeds on *Sambucus*.
- M. trisyllaba* (Say). Axton, Jl (CU); Ithaca, Aug (CU); McLean, Je 12-Sep 24 (Bdy-CU); **LI**: Flatbush, Je-Jl, *Zab* (US). Larva feeds on *Sambucus canadensis*.
- M. trosula* Nort. Poughkeepsie, Jl, *Yg* (NYS); **LI** (US).
- M. varia* (Nort.). Adirondacks, Je (US); Axton, Jl (CU); McLean, Je 12-Jl 19 (Bdy-CU); Nassau, May (NYS).
- M. zabriskiei* Roh. **LI** (type-US).
- M. zonalis* Nort. Axton, Je-Jl (US, CU); Cranberry L., Je-Jl, *Hily* (Roh); Old Forge, Jl (CU); McLean, Ithaca, Jl (CU); Slaterville, Jl (CU); Malloryville (CU).

## TENTHREDO Linnaeus

(Allantus auctt.)

(Subgenus TENTHREDO Linnaeus)

(Allantus auctt.)

- T. basilaris** Say. L. Pleasant, J1 (NYS); Castile, *EABradley* (Bdy); Ithaca, J1-Aug (CU, US); McLean, Aug 19-Sep 3 (Bdy-CU); L. George, Aug, *Zab* (US); Albany (NYS); Karner, Aug (NYS); Salem, Aug (NYS); Southfields, Aug (MacG-Schott); **SI** (Ds).
- T. dubius** (Nort.). McLean, J1 18 (Bdy-CU).

(Subgenus LABIDIA Provancher)

- T. originalis** (Nort.). L. Tear, J1 (US), *Fbs* (Bdy-CU); Mt. Skylight, J1 (US).

TENTHREDELLA Rohwer <sup>123</sup>

(Tenthredo auctt.)

- T. angulifera** (Nort.). Ausable L., J1, *Bks* (NYS); Severance, Aug (NYS); Ithaca, J1 (CU); Albany (Nort.).
- T. antennata** (Kby.). Castile, *EABradley* (Bdy).
- T. bilineata** (MacG.). Ithaca, J1, types; larva feeds on *Geranium maculatum*.
- T. causata** (MacG.). Ithaca, *Junghanns*, type.
- T. cressoni** (Kby.). Keene Val., *Dyar* (MacG.). Larva feeds on white birch.
- T. eximia** (Nort.). Cranberry L., J1 28, 1924, *Htly* (Roh-NYS).
- T. flavomarginis** (Nort.). Canandaigua L., May, Poughkeepsie, J1, *Yg* (NYS).
- T. grandis** (Nort.). Speculator (Smulyan); Canandaigua L., J1, *Yg* (NYS); Ithaca (Smulyan); McLean, May; Poughkeepsie, J1 (Smulyan-NYS).
- T. hyalina** (MacG.). Plattsburg, *Dyar*, type.
- T. junghannsii** (MacG.). Ithaca, *Junghanns*, type.
- T. leucostoma** (Kby.) (*rufipes* Say). Keene Val., J1, *Yg* (NYS); Old Forge, J1, *Yg* (NYS); Saranac Inn, *Ndm*; McLean, May (Bdy-CU); Poughkeepsie, Je (Smulyan); Ft. Montgomery, Je (MacG-Schott).
- T. lobata lobata** (Nort.). Cranberry L., *Htly* (US); Ithaca, Je 14-J1 4 (Bdy-CU); **LI**: Wyandanch, J1 (MacG-Schott).
- T. macgillivrayi** Smulyan. Gloversville, Aug (Smulyan).
- T. mellina** (Nort.). Keene Val., J1, *Yg* (NYS); Karner, Je, *Yg* (NYS).
- T. nigricollis** (Kby.). "NY" (Smulyan).
- T. piceocincta** (Nort.). **LI**: Brooklyn, *JAkhurst*, type.
- T. rubripes** (MacG.). Ithaca, *Junghanns*, type.
- T. rufipes** (Say). McLean, May 31, 1913 (Bdy-CU).
- T. rufopecta** (Nort.). Newport, May, *Yg* (NYS); Corning, *Lint* (Marlatt); Ithaca, McLean (Smulyan); N. Chatham, Je, *Yg* (NYS); Rensselaer, J1, *Yg* (NYS).
- T. rufopediba** (Nort.). Karner, J1 (NYS).

<sup>123</sup> The New England sawflies of the genus *Tenthredella* Rohwer. By M. T. Smulyan. Proc. Bost. Soc. Nat. Hist., vol. 36, p. 383-465. 1923.

- T. signata** (Nort.). Speculator, May, *Yg* (NYS); Newport, Jl, *Yg* (NYS); Ithaca (Smulyan); McLean, May (Bdy-CU); Poughkeepsie, May, *Yg* (NYS).
- T. smectica** (MacG.). Ithaca, type.
- T. verticalis** (Say). Saranac Inn, *Ndm*; L. Pleasant, Je, *Yg* (NYS); Sacandaga Pk. (Bdy-CU); Albany, Jl, Karner, Je, *Yg* (NYS); N. Chatham, Je, *Yg* (NYS); Rock City, Je 9 (Bdy-CU); Rochester Jct., Jl 7, *Leon* (Bdy-CU); LI (Ds); Huntington, Je (MacG-Schott).
- T. yuasi** (MacG.). Ithaca, type.

SUBFAMILY MESSINAE<sup>124</sup>

(Phyllotominae, Fenusinae, and Scolioneurinae, MacGillivray)

## CALIROA O. Costa

- C. aethiops** (Fab.). ROSE SAWFLY. Ithaca, May (CU); Geneseo, Je (NYS). This is a well-known European enemy of roses which has become well established in the US; it is probably widely distributed throughout NY; in literature it is often referred to as *Endelomyia rosae* or *Monostegia rosae*.

## ERIOCAMPOIDES Konow

- E. fasciata** (Nort.). Plattsburg, *Dyar*. Larva feeds on black oak.
- E. lata** (MacG.). Ithaca, type.
- E. limacina** (Retz.). PEAR SLUG. Albion, *Felt*; Syracuse (CU Econ); Angola (CU Econ); Corning, Je (NYS); Binghamton (CU Econ); Schenectady, Rensselaer (*Felt*); Kinderhook, *Felt*; Athens, Aug (*Felt*); West Farms. This species is undoubtedly widely distributed throughout the State. The larva is injurious to plums, cherries, pears, and allied plants, skeletonizing the leaves.
- E. lobata** (MacG.). Oswego, *CSSheldon*, type.
- E. lunata** (MacG.). Ithaca, type.
- E. nortonia** (MacG.). McLean, May 30, 1890, type. I do not know this species and find no reference to it since the original description. It was described in the genus *Caliroa* (Can. Ent., vol. 26, p. 324, 1894).
- E. obsoleta** (Nort.). Albany, May, Karner, Je (NYS); Nassau, May (NYS); Poughkeepsie, May (NYS). Larva feeds on leaves of wild cherry.

## PROFENUSA MacGillivray

- P. collaris** MacG. CHERRY AND HAWTHORN SAWFLY LEAF-MINER. Rochester (Parr&Fult); Geneva, May, *Parr&Fult* (US); Ithaca, May, types; Germantown (Parr&Fult); Botanical Gardens, NYC (Parr&Fult). Larva mines the leaves of cherry and hawthorn.

## MESSA Leach

- M. alsia** MacG. Ithaca, May, type.
- M. amica** MacG. N. Evans, Aug, type.
- M. appota** MacG. Buffalo, Je, type.

<sup>124</sup> *Messinæ* is used for this subfamily by Rohwer because *Messa* is the oldest contained generic name. Those who believe, with the editor, that the subfamily name should be based on the oldest usage of a contained generic name for the stem of the name of a group higher than genus, will substitute *Phyllotominae* for *Messinæ*. (Bdy.)

## FENUSA Leach

- F. dohrnii** (Tischb.). Ithaca, Je, Aug (US, CU); **LI**: Prospect Pk., Brooklyn, Ap (US). Larva mines the leaves of European elm, also of European alder.
- F. pumila** Klug. BIRCH LEAF-MINER. Generally present on gray birch from Chatham northward to Hudson Falls and westward to Binghamton (Felt, litt. Feb. 7, 1925); "very abundant on trees less than six feet high at Stephentown," (Felt, May 28, 1925). A European species recently found in the US.

## KALIOFENUSA MacGillivray

- K. ulmi** (Sundewall). ELM LEAF-MINER. Syracuse, Je (Felt); Johnstown, Je (Felt); Clinton, Je (Felt); Rochester (Felt); Ticonderoga, Je, Wilton, Je (Felt); Baldwinsville, Pompey, Kenwood (Felt); L. George, Je (Felt); Ithaca, Je (US, CU); Albany, Troy (Felt); Tivoli, May (Felt); Cambridge, Greenwich, Je (Felt). Larva mines the leaves of American and European elms.

## POLYBATES MacGillivray

- P. slossonae** MacG. Niagara Falls, Sep 4, 1911, *MCV* (US).

## METALLUS Forbes

- M. capitalis** (Nort.). **LI**: Brooklyn, *JAkhurst*, type.
- M. rubi** Forbes. BLACKBERRY LEAF-MINER. "NY" (CU). Larva mines the leaves of *Rubus*.

SUBFAMILY EMPRIINAE<sup>125</sup>

(*Blennocampinae*, *Lycotinae*, part of *Emphytinae*, MacGillivray)

## EMPRIA Lepeletier

- E. caeca** MacG. Ithaca, type.
- E. callida** MacG. Ithaca, type.
- E. callosa** MacG. Ithaca, type.
- E. candidula** MacG. Ithaca, type.
- E. caprina** MacG. Ithaca, type.
- E. cariosa** MacG. Slaterville to Caroline, type.
- E. casta** MacG. Phoenix, type ♂.
- E. cauduca** MacG. Ithaca, type.
- E. cauta** MacG. Ithaca, type.
- E. cava** MacG. Lancaster, *MCV*, type.
- E. cavata** MacG. Oswego, *CSSheldon*, type.
- E. celebrata** MacG. Buffalo, *MCV*, type.
- E. celsa** MacG. Ithaca, type.
- E. cerina** MacG. Ithaca, type.
- E. cetaria** MacG. Ithaca, type.
- E. columna** MacG. **LI**: Wyandanch, *Schott*, type.

<sup>125</sup> As with *Messinae* (see footnote on page 885). *Empriinae* is based on the oldest contained genus. But the oldest group name is *Blennocampinae*. (Bdy.)



- E. coryli** (Dyar). Plattsburg (Dyar); Van Cort. Pk., Dyar. Larva feeds on hazel.  
**E. ignota** (Nort.). Glens Falls, Je 2 (NYS).  
**E. maculata** (Nort.). BLACK-MARKED STRAWBERRY SLUG. Ithaca (CU); Saratoga Sps., May 30 (Felt); **LI** (US). Larva feeds on leaves of cultivated strawberries and often does some damage.

**APHANISUS** MacGillivray

- A. muricatus** MacG. Ithaca, type.  
**A. odoratus** MacG. Ithaca, type.

**BLENNOCAMPA** Hartig

- B. abnorma** MacG. Ithaca, type.  
**B. abjecta** MacG. Ithaca, type.  
**B. spiraeae** Dyar. Keene Val. (Dyar-US), type. Larva feeds on *Spiraea salicifolia*.

**ERYTHRASPIDES** Ashmead

- E. pygmaea** (Say). Albany, Nassau, May (NYS); West Park, Jl, Felt, Poughkeepsie, May (NYS). Larva feeds on leaves of grape.  
**E. caryae** (Nort.). Malden-on-Hudson, Aug 20 (Felt).

**HYPARGYRICUS** MacGillivray

- H. fumipennis** (Nort.). Newport, May (NYS); Ithaca, May-Je (CU, MacG-III); Kingston, Aug (NYS); Poughkeepsie, Jl, *MCV* (NYS); Ft. Montgomery, Je (MacG-Schott); **SI**, Jl (Ds). Larva feeds on leaves and flowers of *Smilacina racemosa*.  
**H. infuscatus** MacG. Ithaca, type.

**MONOPHADNOIDES** Ashmead

- M. collaris** MacG. Ithaca, type.  
**M. concessus** MacG. Ithaca, type.  
**M. conspersus** MacG. Ithaca, type.  
**M. conspiculata** MacG. Ithaca, type.  
**M. conspicuus** MacG. McLean, type.  
**M. rubi** (Harr.). RASPBERRY SAWFLY. Newark, *CHStuart* (NYS); Oneida (Felt-NYS); Naples, Je (CU Econ). Larva is sometimes destructive to foliage of *Rubus* and has been recorded as feeding on ragweed.

**MONOPHADNUS** Hartig

- M. aequalis** MacG. Ithaca, type.  
**M. bipunctatus** MacG. Ithaca, type.  
**M. tiliae** Nort. Ithaca, McLean, May (CU, MacG-III); Rensselaer, Je (NYS); Poughkeepsie, Je (NYS). Larva feeds on leaves of *Tilia*.

## PARACHARACTUS MacGillivray

*P. obscuratus* MacG. Ithaca, type.

*P. rudis* (Nort.). "NY" (Nort).

## PERICLISTA Konow

(*Isodyctium* Ashmead)

*P. albicollis* (Nort.). **LI**: Bellport (Dyar-US); Yaphank, Dyar (US). Larvae feed on leaves of *Quercus tinctoria*.

*P. caryicola* (Dyar). Bronx Pk. (Dyar-US); **LI**: Bedford, Dyar. Larva feeds on hickory.

*P. confusa* MacG. Ithaca, type.

*P. emarginata* (MacG.). Pelham Manor, May, Van Cort. Pk., May, Dyar. Larvae feed on leaves of *Quercus coccinea*.

*P. infrequens* (Nort.). **LI**: Brookhaven, Je, Bellport, Je, Dyar. Larva feeds on foliage of *Quercus alba*.

*P. marginicollis* (Nort.). "NY" (Nort).

*P. media* (Nort.). Pelham Manor, Van Cort. Pk., Dyar (US); **LI**: Brookhaven, Bellport, Yaphank, Dyar (US). Larva feeds on foliage of *Quercus alba*.

*P. purpuridorsum* Dyar. Ithaca, May-Je (CU, MacG-III); Pelham Manor, May, Dyar (US); **LI**: Bellport, Brookhaven, Je, Dyar (US).

*P. similis* Roh. **LI**: Brookhaven, Dyar. Larva feeds on *Quercus alba*.

*P. subgregaria* (Dyar). Ithaca, May (CU); Pelham Manor, Dyar (US). Larva feeds on *Quercus prinus*.

*P. subtruncata* Dyar. Van Cort. Pk., May, Dyar (US). Larva feeds on *Quercus coccinea*.

*P. xanthognatha* Roh. Ithaca, type.

## RHADINOCERAEA Konow

*R. similata* MacG. Ithaca, type.

SUBFAMILY PHYMATOCERINAE<sup>126</sup>

## NEOTOMOSTETHUS MacGillivray

*N. hyalinus* MacG. McLean, type.

## TOMOSTETHUS Konow

*T. bardus* (Say). Keene Val., Je (Dyar-US); Rouses Pt., Je, Dyar; Ithaca, May-Je (CU); Greenwood L., May (MacG-Schott). Larva feeds on foliage of ash.

*T. inhabilis* (Nort.). McLean, Je 13-Jl 15 (Bdy-CU).

## SUBFAMILY SELANDRIINAE

## CORYNA Lepeletier

*C. vanduzeei* (Roh.). Buffalo, Je 4, 1890, *MCV* (US), type.

<sup>126</sup> Included in Blennocampinae by MacGillivray.

## POLYSELANDRIA MacGillivray

- P. flavipes** (Nort.). Saranac Inn, J1 (NYS); Axton, J1 (CU); Oswego, J1 (CU); Ithaca, J1 (CU); Karner, J1, N. Chatham, Je (NYS); **LI** (US). Larva feeds on *Pteris aquilina*.

## HEMITAXONUS Ashmead

- H. albidopictus** (Nort.) (*innominatus* MacG.). Saranac Inn, *Ndm*, type of *innominatus*; Syracuse, Aug (MacG-III); Boston, Aug, *MCV* (US); Ithaca, Sep (MacG-CU); **LI**: Wyandanch, May (MacG-Schott).
- H. amicus** (Nort.). Rouses Pt., Je 13, 1895 (Dyar-US). Larva feeds on *Onoclea sensibilis*.
- H. dubitatus** (Nort.). Ellenville, J1 (CU); Ithaca, May (US,CU); McLean, May (CU); W. Nyack, J1 (US); Van Cort. Pk., J1 (US); **LI**: (US); Maspet, Je, *Ols* (MacG-Schott). Larva feeds on *Onoclea*.

## STRONGYLOGASTER Dahlbom

- S. annulosus** Nort. Saranac Inn, *Ndm* (MacG); Axton, Je (US, CU); Woodworth, Je (NYS); Ilion, May (NYS); Albany, Je (NYS); **LI**: Wyandanch, May (MacG-Schott). Larva feeds on *Pteris aquilina*.
- S. longulus** Nort. McLean, Je 5 (Bdy-CU); Albany, May (NYS); **LI**: Wyandanch, May (MacG-Schott).
- S. luctuosus** Prov. Keene Val., *Dyar* (MacG).
- S. politus** Cress. Otto (CU); McLean, Je 5 (Bdy-CU). Larva feeds on *Pteris aquilina*.
- S. soriculatus** Cress. Cranberry L., Je 19, 1924, *Htly* (Roh).
- S. tacitus** (Say). Castile, *EABradley* (Bdy); McLean, Ap 30 (Bdy-CU); Karner, May, Albany, Je (NYS); **LI**: (US); Yaphank, J1, *Ols* (MacG-Schott).
- S. unicus** Nort. **LI**: Brooklyn, *Jakhurst* (Nort).

## THRINAX Konow

- T. pullatus** MacG. Ithaca, type. Larva feeds on fern.

## SUBFAMILY CLADIINAE

## TRICHIOCAMPUS Hartig

- T. gregarius** (Dyar). Keene, J1 1, 1894, *Dyar* (US). Larva feeds gregariously on *Populus tremuloides* and *P. deltoides*.
- T. pacatus** MacG. Ithaca, type.
- T. viminalis** (Fall.). POPLAR SAWFLY. Greenfield Center, Chester, Aug, New Milford, Aug (Felt); Binghamton, Sep (Felt); Albany and vic. (NYS,CU, US, MacG-III); Cambridge, *Felt* (NYS); NYC, May, *Dyar* (US); **LI**: Brooklyn (US). This European species was first recorded from US by Lintner, who reared it from larvae feeding on leaves of *Populus monilifera* collected at Albany, and described it as *Aulacomerus lutescens*. It has since been observed in a number of localities in the northeastern part of the US and is sometimes recorded as injurious to Carolina poplar. Lintner observed that adults of the first brood emerge in July and the second brood appears in August.

## PRIOPHORUS Dahlbom

- P. aequalis* (Nort.). Castile, *EABradley* (Bdy); Albany, Ap, *Yg* (NYS).  
*P. infuscatus* (MacG.). Ithaca, type.  
*P. palliolatus* (MacG.). Ithaca, type. Larva feeds on leaves of *Salix*.  
*P. rubi* Roh. Hamburg, May 14, 1911, *MCV* (US).  
*P. solitarius* (Dyar). Ithaca, Aug (CU).

## CLADIUS Rossi

- C. isomerus* Nort. (*pectinicornis* auctt. not Fourc.). BRISTLY ROSE SLUG. Ellen-ville, Je (MacG-III); Ithaca, Aug (Griswold); Van Cort. Pk., Je, *Dyar* (US). This is a very common leaf skeletonizer of roses, and undoubtedly is widely distributed throughout the State.

## SUBFAMILY NEMATINAE

## PLATYCAMPUS Schiødt

- P. americanus* (Marl.). Plattsburg, *Dyar*. Larva feeds on foliage of poplar.

## CERATEROCERCUS Rohwer

- C. albidovariatus* (Nort.). LI: Bellport, May, *Dyar* (US). Larva feeds on foliage of *Quercus coccinea*.  
*C. phytophagicus* (Dyar). Van Cort. Pk., Ap (Dyar-US); Bronx Pk., May, det. from larva (Dyar). Larva feeds on foliage of *Quercus alba*.  
*C. quercivorus* Roh. Bronx Pk., May (Dyar-US); Pelham Bay Pk., May, *Dyar* (US); Franklin Pk., Je (Dyar). Larva feeds on foliage of *Quercus alba*.

## HEMICHROA Stephens

- H. americana* (Prov.). Ithaca, Aug (CU); Fulton, J1 (CU); Ellis, J1 (CU); McLean, May (CU).  
*H. dyari* Roh. Rhinebeck, determined from larva (Dyar). Larva feeds on *Alnus*.

## HOPLOCAMPA Hartig

- H. halcyon* Nort. Niagara Falls, May, *MCV* (US); Ithaca (US); McLean, May, *CFBaker* (US). Larva feeds within the fruit of *Amelanchier*.

## DINEURA Dahlbom

- D. litura* (Klug). Karner, Ap-May, "found on willow" (NYS).

## PONTANIA A. Costa

- P. borealis* Marl. Plattsburg, *Dyar*. Larva causes galls on leaves of *Salix sericea*, and according to Dyar is single-brooded.  
*P. consors* Marl. Plattsburg, *Dyar*. Larva causes folds on leaves of *Salix sericea*, and pupates in decayed wood.  
*P. daedala* MacG. Ithaca, type.

- P. decrepita* MacG. Ithaca, type.  
*P. dedocora* MacG. Ithaca, type.  
*P. demissa* MacG. Ithaca, type.  
*P. derosa* MacG. Ithaca, type.  
*P. desmodioides* (Walsh). Buffalo, J1 (CU Econ); Richfield Sps. (Marlatt).  
*P. dotata* MacG. Ithaca, type.  
*P. gracilis* Marl. Gouverneur (Lint); Van Cort. Pk., Dyar. Larva causes galls on leaves of *Salix petiolata*.  
*P. hyalina* (Nort.). Saranac Inn, Ndm (MacG-III); Johnstown, May (NYS); Canandaigua, Oct (Felt); Ithaca, J1 (CU); Richfield Sps., Pergande (Marlatt); Hudson Falls, J1 (Felt); Nassau, May (NYS); Dunkirk, J1 (NYS); **LI**: Bellport, Dyar. Larva causes galls on leaves of smooth-leaved willow, according to Dyar; according to records from Cornell collections, the gall occurs on *Salix fragilis*.  
*P. pallicornis* (Nort.). Plattsburg, Aug (Dyar-US); Van Cort. Pk. (Dyar).  
*P. pisum* (Walsh). Ithaca, May (CU, MacG-III); Richfield Sps., Pergande (Marlatt); E. Steamburg, ELHorton (Marlatt). Larva causes galls on the leaves of *Salix* sp.  
*P. pomum* (Walsh). Canandaigua, Oct (Felt); Ithaca (CU); Albany, Yg (NYS); W. Albany, Lint (NYS); Hudson Falls, Je (Felt); Easton Hills, Sep (NYS); vic. of NYC (Bt). Larva causes galls on leaves of *Salix cordata* and *S. discolor*.  
*P. populi* Marl. Vic. NYC, Dyar (type-US). Larva folds the edge of the leaf of *Populus grandidentata*.  
*P. robusta* Marl. Vic. NYC, Dyar. Larva folds the edge of the leaf of *Populus tremuloides*.  
*P. terminalis* Marl. Van Cort. Pk., Dyar; NYC, Dyar (US), type.

## PTERONIDEA Rohwer

(Pteronus auctt.)

- P. cornelli* Marl. Ithaca, J1 (CU); **SI**, Je (Ds); **LI**: Montauk, J1 (MacG-Schott). Larva feeds on foliage of *Salix*.  
*P. coryli* (Cress.). Plattsburg, J1, Dyar; **SI**, May (Ds). Larva feeds on foliage of *Corylus rostrata*.  
*P. dyari* Marl. "NY", Dyar (type-US).  
*P. edita* MacG. Ithaca, type.  
*P. edura* MacG. Ithaca, type.  
*P. erythrogastra* (Nort.). Ithaca, Bks (US); Karner, Aug (NYS). Yuasa records the larva as feeding on foliage of *Carpinus caroliniana*, *Morus alba*, and *Alnus rugosa*.  
*P. fulvicrus* (Prov.). Ithaca (MacG-III).  
*P. hudsonii-magna* (Dyar). Plattsburg, Aug 31, 1893, Dyar (US). Larva feeds on foliage of poplar.  
*P. hyalina* (Marl.). Plattsburg, Je 6, Dyar (US). Larva feeds on foliage of white birch.  
*P. integra* (Say). **LI**: Brookhaven, J1 7, Dyar (US).



- P. lateralis* (Nort.). Plattsburg, Keene Val., *Dyar*; Albany, *Peck* (Nort); Central Pk., NYC, *Dyar*. Larva feeds on foliage of *Betula populifolia*.
- P. latifasciata* (Cress.). Keene Val. (*Dyar*). Larva feeds on foliage of *Betula papyrifolia*.
- P. lombardae* (Marl.). Plattsburg, Sep 6, 1893, *Dyar* (US). Larva feeds on foliage of *Populus grandidentata*.
- P. longicornis* (Marl.). "NY" (types-US); Ithaca, Ap-May (CU,US); **LI**: Flatbush, May, *Dyar* (US).
- P. longulicornis* (Nort.). "NY" (Nort).
- P. marlatti* (*Dyar*). "NY", *Dyar*, type.
- P. mendica* (Walsh). Plattsburg, *Dyar* (US); Ithaca, Ap, Aug (CU); Jefferson Highlands (US); Central Pk., NYC, *Dyar* (US). Larva feeds on foliage of *Salix*.
- P. militaris* (Cress.). Ithaca, May, Aug (CU, MacG-III).
- P. odorata* (*Dyar*). Bluff Pt., near Plattsburg, Aug (*Dyar*-US); Ithaca, J1 (MacG-III).
- P. ostiaria* MacG. Ithaca, *Yuasa*, type.
- P. pinguidorsum* (*Dyar*). Keene Val., *Dyar* (type-US). Larva feeds on foliage of *Betula papyrifera*.
- P. plesia* Roh. **LI**: Westbury (type-US). Larva feeds on foliage of *Populus grandidentata*.
- P. quercus* (Marl.). Ithaca, *Trelcase*, type; Albany, May (NYS); **LI**: Brookhaven (*Dyar*-US). Larva feeds on foliage of *Quercus alba*.
- P. ribesii* (Scop.). IMPORTED CURRANT WORM. Indian L., Watertown (NYS); Oswego, May (MacG-III); Fulton (NYS); Rochester (Fitch); Lyons, western NY (NYS); Ithaca (CU); Utica (NYS); Binghamton, May, Ballston Spa, Je (NYS); Rhinebeck, Albany, Johnson City (NYS); **LI**: Flatbush, *Dyar* (US). Larva feeds on foliage of *Ribes*. This is the common, introduced, currant and gooseberry sawfly. It is undoubtedly very widely distributed throughout the State, and may at times become injurious to cultivated species of *Ribes*. It has a number of broods each year.
- P. trilineata* (Nort.). Newburgh, *Edwards* (Nort); Ithaca, J1 (CU); **LI**: Maspeth, Je (MacG-Schott). Larva feeds on foliage of *Salix*.
- P. ventralis* (Say). Central Pk. in NYC (*Dyar*-Us); **LI**: Flatbush, J1, *Dyar* (US). Larva is common on foliage of willow, and feeds gregariously.
- P. vertebrata* (Say). Plattsburg (*Dyar*-US); Jefferson Highlands, Je (*Dyar*-US); **LI**: Flatbush, J1, *Zab* (US).

#### AMAURONEMATUS Konow

- A. azaleae* Marl. Rochester, Je (Felt); Ithaca (MacG-III). Larva feeds on foliage of *Azalea*.
- A. brunneus* (Nort.). Ithaca, May 5, 1899 (CU).
- A. comstocki* Marl. Ithaca, May 2, 1891 (CU).
- A. concolor* (Nort.). Albany, *Peck* (Nort).
- A. fulvipes* (Nort.). Ithaca, May (MacG-III).
- A. gracilis* Marl. Ithaca, May (type-CU); **LI**: Wyandanch, Ap (MacG-Schott).
- A. lineatus* (Harr.). Ithaca, Ap 26, 1896 (CU).

- A. luteotergus** (Nort.). Keene Val., *Dyar* (US); Ithaca, May (MacG-III). Larva feeds on foliage of *Alnus*.
- A. nigrofemoratus** (Cress.). Ithaca, May (CU). This is an unusual record and may be based on an erroneous determination.
- A. oregonensis** Marl. Keene Val. (*Dyar*). Larva feeds on foliage of "woolly willow."
- A. rapax** (Cress.). Ithaca, Ap (MacG-III). This species was previously reported only from Nevada.
- A. similis** Marl. Plattsburg and Keene Val., *Dyar*. Larva feeds on foliage of "woolly willow."

**CROESUS** Leach <sup>127</sup>

- C. latitarsis** (Nort.). Plattsburg (*Dyar*); Ithaca, Aug (CU); Glen, J1 (CU). Larvae feed gregariously on foliage of birch.

**NEMATINUS** Rohwer

(Nematus Konow and auctt.)

- N. chloreus** (Nort.). LI: Bellport, Je 5, 1897, *Dyar* (US). Larva feeds on foliage of black oak.
- N. unicolor** (*Dyar*). Keene Val., type. Larva feeds on white birch.

**NEMATUS** Panzer <sup>128</sup>

(Holconeme Konow)

- N. erichsonii** Hartig. LARCH SAWFLY. New Russia, Je (NYS); Alder Cr., Je (NYS); Horicon, Pottersville, Schroon L., DeKalb Jct., Cherry Val., Newton's Corners to Sageville, St. Lawrence Co, Wilmington Notch to Mountain View House in Essex Co (Felt); Crosby, Je (NYS); Ithaca, Ap-J1 (CU, MacG-III); Ballston Spa (Felt); Albany, May-Aug (Felt). Larvae feed on foliage of larch, and are often an important pest.
- N. suratus** Fitch. "NY", type. Larva is recorded as feeding on cherry. This species has not been examined since it was originally described, and very probably does not belong to the genus *Nematus* as at present restricted.

**PACHYNEMATUS** Konow

- P. aurantiacus** Marl. McLean (CU).
- P. corniger** (Nort.). McLean, Je-Aug (Bdy-CU); Johnstown, J1, 1908 (NYS).
- P. corticosus** MacG. Saranac Inn, type.
- P. extensicornis** (Nort.). "NY" (Nort); Ithaca (CU); W. Danby, May 31 (CU). Larva feeds on foliage of wheat.
- P. gregarius** Marl. Ithaca (MacG-III).
- P. inconspicuus** (Kby.). "NY", *Dbl* (type-Brit. Mus.).

<sup>127</sup> If the Erlangen List is accepted, this generic name will have to be changed to *Nematus* Jurine (Panzer).

<sup>128</sup> If the Erlangen List is accepted, the generic name *Nematus* will have to be assigned to the group here treated under the name *Croesus*, and the group treated as *Nematus* will have to be called *Holconeme* Konow.

- P. palliventris* (Cress.). Oswego, May 15 (CU); Ithaca, *AMShaw* (CU).  
*P. pleuricus* (Nort.). Ithaca, J1 3 (CU).  
*P. remissus* MacG. Ithaca, type.  
*P. repertus* MacG. Ithaca, type. Larva feeds on *Carex*.  
*P. robustus* Marl. Ithaca, May 26, *Houghton* (CU).  
*P. roscidus* MacG. Adirondacks, type.  
*P. subalbatus* (Nort.). Ithaca, May 9, 1895 (CU). Larva feeds on *Carex*.

## PRISTIPHORA Latreille

- P. banski* Marl. Ithaca (US), type; **LI**: Sea Cliff (US), type; Huntington, Je (MacG-Schott).  
*P. dyari* Marl. Keene Val., Je, *Dyar*, type; Ithaca, J1 (MacG-III).  
*P. idiota* Nort. Speculator, May (NYS); Karner, J1, *Yg* (NYS).  
*P. murtfeldtiae* Marl. Ithaca, Aug 19 (CU). Larva feeds on foliage of *Salix*.  
*P. ostiaria* MacG. Ithaca, type.  
*P. allicoxa* Roh. Lancaster, Je 4, 1911, *MCV* (US).  
*P. sycophanta* (Walsh). Keene Val., *Dyar*; Jefferson Highlands, *Dyar* (Marl).  
 Larva is recorded as feeding on foliage of *Betula papyrifera* and *Salix*.

## DIPHADNUS Hartig

- D. appendiculatus* (Hartig). "NY" (Nort); Ithaca (US). Introduced; sometimes abundant enough to be considered a pest; larva feeds on foliage of cultivated currants and gooseberries.

## EUURA Newman

- E. nigria* Prov. Ithaca (US, CU, MacG-III).  
*E. orbitalis* (Nort.). L. Placid, Ap, *MCV* (NYS); Karner, Je, *MCV* (NYS);  
 Phoenicia, Aug, *MCV*; **LI**: Brooklyn, *Akhurst* (Nort).  
*E. salicis-nodus* Walsh. "NY" (Nort).  
*E. salicis-ovum* Walsh. "NY" (Nort).

FAMILY PTERYGOPHORIDAE<sup>129</sup>

## ACORDULECERA Say

- A. dorsalis* Say. Albany, May, 1910 (NYS); Poughkeepsie, May, 1903 (NYS).  
 Larva feeds on oak.  
*A. maculata* MacG. Ithaca, type locality; Caroline to Harford, Je (US, CU);  
 McLean, J1, Slaterville to Caroline, Je (MacG-III).  
*A. maura* MacG. Ithaca (CU), type; Caroline to Harford, Je (US).  
*A. maxima* MacG. Ithaca, type. Larva feeds on *Quercus alba*.  
*A. meleca* MacG. Ithaca, type.  
*A. minima* MacG. Ithaca, type.

<sup>129</sup> This family is composed of the subfamilies Pterygophorinae and Acordulecerinae of the family Tenthredinidae, in MacGillivray's classification. In Comstock's *Introduction to Entomology*, it is included in the Argidae. (Bdy.)

- A. mixta* MacG. Ithaca, paratype (US); Mud Cr., Je 17, 1920 (US).  
*A. munda* MacG. Ithaca, type (CU); Greenwood L., Je (MacG-Schott).  
*A. musta* MacG. Ithaca, type (CU). Larva feeds on hickory.  
*A. nigratarsis* Roh. "LI", paratype. Larva feeds on *Quercus marilandica*.  
*A. parva* Roh. Van Cort. Pk., type.  
*A. quercus* Roh. "NY", type. Larva feeds on oak.  
*A. saginata* Prov. Ithaca, Je (MacG-III).

## SUBORDER IDIOGASTRA

Compiled by S. A. ROHWER

## FAMILY ORYSSIDAE

## ORYSSUS Latreille

- O. affinis* Harr. Karner, Je (Yg-NYS); Poughkeepsie, Je (Yg-NYS).  
*O. sayii* Westw. Peru, Sep 19, 1916 (Bdy-CU); Ithaca, Je 3, 1925 (Fbs-CU); SI, May-Je (Beq-Ds).  
*O. terminalis* Newman. Trenton Falls (Dbl), type; Michigan Hollow Swamp, Lloyd (Bdy-CU); West Pt. (Beq-Ds).

## SUBORDER CLISTOGASTRA

## Superfamily ICHNEUMONOIDEA

FAMILY BRACONIDAE<sup>130</sup>

Compiled by C. F. W. MUESEBECK

New York specimens of all the species of Braconidae in the following list have not yet been obtained, or at least have not yet been identified; but on the basis of their known general distribution and hosts, they must certainly occur in the State, and for that reason are included.<sup>131</sup> Many of the subfamilies are still in an extremely unsatisfactory condition from a taxonomic standpoint. This is true particularly of Alysinae, Blacinae, Sigalphinae, Braconinae, Macrocentrinae, Hormiinae, and Aleioidinae. Revision of these groups, and the more thorough working of material already in museum collections, will certainly reveal a much larger braconid fauna in the State of New York. Practically all the species of this family, with the exception of certain Alysinae, are primary parasites, and many of them are very important agents in the natural control of injurious insects.

## SUBFAMILY COENOCOELIINAE

This group has sometimes been held as a distinct family because of the unusual attachment of the abdomen far above the level of the posterior coxae, in which respect it somewhat resembles the Evanidae. But the wing venation and general structure, as well as the habits and manner of development of the various species, are typically braconid. It is nearest the Helconinae.

<sup>130</sup> At the suggestion of the editors, Mr. Muesebeck has retained the sequence of subfamilies developed by Szepligeti in *Genera Insectorum*, vol. 22, *Hymenoptera, Fam. Braconidae*, 1904.

<sup>131</sup> Although in other groups species not actually recorded from the State have not been listed, in view of the great pains taken by Mr. Muesebeck in preparing the list of this family, and his feeling, shared by ourselves, that the omission of such species would greatly curtail the value of the list, they have been included but placed in brackets and set in italics. As so much of the literature dealing with our species of Braconidae has been published subsequent to any catalog, Mr. Muesebeck has kindly included the reference to the original description of each species.—Editors.

**COENOCOELIUS** Provancher*(Aulacodes* Cresson)

- [*C. ashmeadi* D.T. Cat. Hymen., 1898, 4:72. A parasite of *Leiopus* (Cerambycidae) in sumac.]
- C. erythrogaster** Roh. Can. Ent., 1914, 46:317. Syracuse. Reared from *Leiopus alpha* (Say) and ?*Saperda discoidea* Fab. (both Cerambycidae), in hickory.
- [*C. populator* (Say). Keating's Narrative of an expedition to the source of St. Peter's River, etc., 1824, 2:323.]
- C. provancheri** Roh. Can. Ent., 1914, 46:321. Syracuse, reared by Blackman and Stage from ?*Neoclytus acuminatus* (Fab.) (Cerambycidae) in hickory. Also parasitic on *Leiopus* larva in sumac.
- C. rugosus** Prov. Addit. fauna Can. Hymen., 1886, p. 122. Ithaca, Je 29, from the elm borer, *Saperda tridentata* Oliv. (Cerambycidae) (Ashm-CU).
- C. saperdae** (Ashm.). Proc. U.S. Nat. Mus., 1889(1888), 11:653. Ithaca, Sep (Mues-CU); Slaterville to Caroline, Je, *MacG&Bdy* (Mues-CU). A parasite of the round-headed apple-tree borer, *Saperda candida* Fab. (Cerambycidae).

SUBFAMILY **VIPIINAE***(Braconinae* auctt.)

(Many species of this group are parasitic on Coleoptera of various types, while others are important enemies of injurious Lepidoptera.)

**ATANYCOLUS** Foerster*(Melanobracon* Ashmead)

- A. epicus** (Cress.). Trans. Amer. Ent. Soc., 1872, 4:183. Norton's Landing, Cayuga L., *SmHH* (Ashm-CU).
- A. charus** (Rly.). Seventh Ann. Rep. Ins. Mo., 1875, p. 75. Ithaca, Aug (Ashm-CU). A parasite of the larva of *Chrysobothris femorata* (Oliv.) (Buprestidae).
- A. rugosiventris** (Ashm.). Proc. U.S. Nat. Mus., 1889(1888), 2:613. Syracuse (B&S). Reared from *Chrysobothris femorata* (Oliv.) (Buprestidae).
- A. simplex** (Cress.). Trans. Am. Ent. Soc., 1872, 4:184. Syracuse (B&S); Ithaca, May (Ashm-CU); **SI**, J1 31, *Ds* (Ashm); **LI**: Huntington, *Schott* (Roh). Probably throughout the State. Recorded as a parasite of *Saperda discoidea* Fab. and the elm borer, *S. tridentata* Oliv. (both Cerambycidae).

**COELOIDES** Wesmael

- [*C. pissodis* (Ashm.). Proc. U.S. Nat. Mus., 1889(1888), 11:617. A parasite of the white pine weevil, *Pissodes strobi* (Peck).]
- C. scolytivorus** (Cress.). Riley, C.V., Fifth Rep. Ins. Mo., 1873, p. 106. Genesee Reared from the hickory bark-borer, *Scolytus quadrispinosus* Say.

**CAMPYLONEURUS** Szepligeti

- [*C. rugator* (Say). Bost. Journ. Nat. Hist., 1836, 1:251.]



## IPHIAULAX Foerster

- I. agrili** (Ashm.). Proc. U.S. Nat. Mus., 1889(1888), 11: 612. Recorded from NY.  
A parasite of *Agrilus arcuatus fulgens* Lec. (Buprestidae), and *Neoclytus acuminatus* (Fab.) (Cerambycidae).
- I. erythrogaster** Br. Hist. Nat. Ins. Hymen., 1846, 4: 400. Ithaca, May-Sep (CU).  
A parasite of the larvae of various longicorn beetles.

MICROBRACON Ashmead<sup>132</sup>

(Bracon auctt. not Jurine)

As here considered this genus includes the species formerly placed in both Habrobracon and Microbracon. It is a large and very difficult group. Most of the species are parasites of lepidopterous larvae, but some attack Coleoptera, while a few are found parasitizing both lepidopterous and coleopterous larvae which occur in similar situations.

- M. apicatus** (Prov.). Nat. Can., 1880, 12: 142. Ithaca, Aug (Ashm-CU); LI;  
probably occurs throughout the State.
- [*M. atricollis* (Ashm.). Proc. U.S. Nat. Mus., 1889(1888), 11: 622.]
- [*M. auripes* (Prov.). Addit. fauna Can. Hymen., 1888, p. 372. A parasite of lepidopterous larvae boring in such weeds as *Amaranthus* and *Ambrosia*.]
- [*M. brachyurus* (Ashm.). Can. Ent., 1891, 23: 1.]
- M. caulicola** Gahan. Proc. U.S. Nat. Mus., 1922, 61: 2. Schenectady, reared by E.M. Searls from *Pyrausta ainslei* (Hein.) (Pyrilidae). Probably throughout the State. A parasite of various species of *Pyrausta* including *nubilalis* Huebner, the imported European corn borer.
- [*M. cushmani* Mues. (*variabilis* Cush.). Proc. U. S. Nat. Mus., 1925, 67: 29. A widely distributed species. Parasitic on *Psorosina hammondi* Rly., *Acrobasis indiginella nebulella* (Rly.), *A. indiginella* Zell. (all Pyralidae), and *Laspeyresia prunivora* Wals. (Tortricidae).]
- [*M. furtivus* (Fyles). Can. Ent., 1892, 24: 34. A very common parasite of the goldenrod gall-maker, *Gnorimoschema gallaesolidaginis* Rly. (Gelechiidae).]
- [*M. gastroideae* (Ashm.). Proc. U.S. Nat. Mus., 1889(1888), 11: 617. Parasitic on larva of *Gastroidea cyanea* Melsh.]
- M. gelechiae** (Ashm.). Proc. U.S. Nat. Mus., 1889(1888), 11: 623. Ithaca, May (Ashm-CU); McLean, Aug 1 (Mues-CU); Oswego. Undoubtedly throughout the State; very widely distributed, occurring from Me. to Calif. Its recorded hosts include *Psorosina hammondi* Rly. (Pyrilidae), the oriental peach moth (*Laspeyresia molesta* Busck), the grape leaf-roller (*Desmia funeralis* Hbn.) (Pyrilidae), the grape berry moth (*Polychrosis viteana* Clemens), the apple-leaf-roller (*Archips argyrospila* Wlk.) (Tortricidae), and *Gelechia* spp. (*Gnorimoschema*?) (Gelechiidae).
- M. hebetor** (Say). Bost. Journ. Nat. Hist., 1836, 1: 252. Ithaca, J1 (Ashm-CU). A very abundant cosmopolitan species, occurring throughout the range of its hosts. Its principal hosts are the flour and meal moths, *Ephestia kuhniella* Zell. and *Plodia interpunctella* Hbn. It also parasitizes other species of *Ephestia*, the angoumois grain moth (*Sitotroga cerealella* Oliv.) (Gelechiidae), *Vitula edmandsii* Pack., and the bee-moth (*Galleria mellonella* L.) (both Pyralidae).

<sup>132</sup> A revision of the North American species of this genus has just been published by Mr. Muesebeck (Proc. U. S. Nat. Mus., 1925, vol. 67, art. 8, 85 pp. (Bdy.)

- [*M. juncicola* (Ashm.). Proc. U.S. Nat. Mus., 1889 (1888), 11:620. Apparently parasitic on the larvae of various species of *Coleophora* (Coleophoridae).]
- M. lixi** (Ashm.). Insect Life, 1892, 4:257. Rye, J1 15-25 (Bird), a primary parasite on *Papaipema* (Noctuidae) in early larval stages.
- M. lutus** (Prov.). Nat. Can., 1880, 12:142. McLean, Aug 12, Sib (Mues-CU); Rye, reared by HCBird from *Papaipema nebris* Guenée (Noctuidae). Also recorded as a parasite of *Lixus scrobicollis* Boh. (Curculionidae), in Ambrosia.
- [*M. melanaspis* (Ashm.). Can. Ent., 1891, 23:1.]
- M. mellitor** (Say). Bost. Journ. Nat. Hist., 1836, 1:256. Manlius, SmHH (Ashm-CU). A very widely distributed species. In the Cotton States it is an exceedingly important parasite of the cotton-boll weevil, *Anthonomus grandis* Boh., and of the pink boll-worm, *Pectinophora gossypiella* Saunders. In the northern States it has been abundantly reared from the grape berry moth, *Polychrosis viteana* Clemens.
- [*M. meromyzae* (Gahan). Proc. U.S. Nat. Mus., 1913, 46:432. A parasite of *Meromyza americana* Fitch.]
- M. nigridosum** (Ashm.). Can. Ent., 1891, 23:2. Ithaca, May (CU).
- M. nuperus** (Cress.). Trans. Amer. Ent. Soc., 1872, 4:187. Thousand Isls., J1 (Ashm-CU).
- [*M. oenotherae* Mues. Proc. U.S. Nat. Mus., 1925, 67:62. A parasite of lepidopterous larvae feeding in the seed capsule of the evening primrose.]
- M. papaipemae** Gahan. Proc. U.S. Nat. Mus., 1922, 61:4. Rye, type locality, reared by HCBird from the larva of *Papaipema frigida* Smith (Noctuidae).
- [*M. pini* Mues. Proc. U.S. Nat. Mus., 1925, 67:52. A rather common parasite of the white-pine weevil, *Pissodes strobi* Peck, in the northeastern States.]
- [*M. politiventris* (Cush.). Proc. U.S. Nat. Mus., 1919, 55:517. A common gregarious parasite of the grape berry moth, *Polychrosis viteana* Clem., and of various leaf-rollers.]
- M. punctatus** Mues. Proc. U.S. Nat. Mus., 1925, 67:24. Nassau Co, type locality, reared from the parsley stalk-weevil, *Listronotus latiusculus* (Boh.), by Chittenden.
- M. pygmaeus** (Prov.). Nat. Can., 1880, 12:144. McLean, Sep 1 (Mues-CU). A very common and widely distributed species, occurring from Me. to Calif. Parasitic on various species of *Coleophora* (Coleophoridae).
- [*M. quinniacorum* Vier. Conn. Geol. and Nat. Hist. Surv., 1916, Bull. 22, p.207.]
- [*M. sanninoideae* Gahan. Proc. U.S. Nat. Mus., 1917, 53:196. A widely distributed parasite of the peach-tree borer, *Conopia exitiosa* Say.]
- [*M. scanticorum* Vier. Conn. Geol. and Nat. Hist. Surv., 1916, Bull. 22, p. 207.]
- [*M. sesiae* Mues. Proc. U.S. Nat. Mus., 1925, 67:53. A parasite of the currant borer, *Conopia tipuliformis* (L.) (Aegeriidae).]
- M. tachypteri** Mues. Proc. U.S. Nat. Mus., 1925, 67:68. Stony I. (Mues-US). Parasitic on the apple curculio, *Tachypterellus quadrigibbus* (Say).
- [*M. tenuiceps* Mues. Proc. U.S. Nat. Mus., 1925, 67:46.]
- M. variabilis** (Prov.). Addit. fauna Can. Hymen., 1888, p. 382. McLean, Aug 12, Sib (Mues-CU). A very common, widely distributed species. Recorded as a parasite of the grape berry moth, *Polychrosis viteana* Clem., and the plum curculio, *Conotrachelus nemphar* (Herbst).
- [*M. xanthonotus* (Ashm.). Proc. U.S. Nat. Mus., 1888, 11:618. Recorded from N. H. to Calif.]

## SUBFAMILY SPATHIINAE

(The species belonging to this group are parasites of wood-boring coleopterous larvae.)

## SPATHIUS Nees

- [*S. brachyurus* Ashm. Can. Ent., 1893, 25:71-73. Recorded as a parasite of the white-pine weevil, *Pissodes strobi* Peck.]
- [*S. canadensis* Ashm. Can. Ent., 1891, 23:2. A parasite of *Phloeosinus dentatus* (Say) and *Ips grandicollis* (Eich.) (both Scolytidae).]
- [*S. claripennis* Ashm. Can. Ent., 1893, 25:70-72. On record as a parasite of *Polygraphus rufipennis* (Kby.) (Scolytidae).]
- S. laflammei** Prov. Nat. Can., 1880, 12:164. Ithaca, Je (Ashm-CU).
- [*S. pallidus* Ashm. Can. Ent., 1893, 25:70-72. Recorded as parasite of *Ips grandicollis* (Eich.) (Scolytidae).]
- S. simillimus** Ashm. Can. Ent., 1893, 25:70-73. Recorded from NY, as a parasite of *Agrilus bilineatus* (Weber) (Buprestidae).
- S. tomici** Ashm. Can. Ent., 1893, 25:71. Recorded from Erie Co. A parasite of *Orthotomicus punctipennis* (Lec.), *Scolytus piceae* (Swaine), and *Polygraphus rufipennis* (Kby.) (all Scolytidae).
- S. trifasciatus** Rly. Fifth Ann. Rep. Ins. Mo., 1873, p. 106. Syracuse; Geneseo; Ithaca, Je (Vier-CU). A parasite of the hickory bark-borer, *Scolytus quadrispinosus* Say; probably attacks various species of Scolytus.
- S. unifasciatus** Ashm. Can. Ent., 1893, 25:70-72. Geneseo. A parasite of the hickory bark-borer, *Scolytus quadrispinosus* Say.

## CAENOPHANES Foerster

- C. aciculatus** Ashm. Can. Ent., 1893, 25:76. Ithaca, May 31 (Ashm-CU).

## SUBFAMILY HECABOLINAE

## HECABOLUS Curtis

- [*H. lycti* (Cress.). Amer. Ent., 1880, 3:24. A parasite of *Lyctus linearis* (Goeze) (Lyctidae).]
- [*H. minimus* (Cress.). Amer. Ent., 1880, 3:24.]
- H. utilis** (Cress.). Amer. Ent., 1880, 3:24. NY, type locality.

## SUBFAMILY DORYCTINAE

## GLYPTODORYCTES Ashmead

- G. caryae** (Ashm.). Trans. Am. Ent. Soc., 1896, 23:214. Syracuse. From a coleopterous larva in *Hicoria glabra* (B&S).

## DORYCTES Haliday

- D. disjunctus** Cress. Trans. Am. Ent. Soc., 1872, 4:186. Syracuse. From a coleopterous larva in hickory (B&S).
- [*D. exhalans* (Say). Contrib. Maclur. Lyc. Phila., 1828, 2:78.]
- [*D. pallipes* Prov. Addit. fauna Can. Hymen., 1888, p. 375.]
- D. radiatus** Cress. Trans. Amer. Ent. Soc., 1872, 4:185. Ithaca, Je 25, Jl 12, Yuasa (Bdy-CU).

## ODONTOBRACON Cameron

- [*O. elaphidiovor* Roh. Proc. U.S. Nat. Mus., 1917, 53:168. A parasite of *Elaphidion* sp. (Cerambycidae).]  
 [*O. pectinator* (Say). Bost. Journ. Nat. Hist., 1836, 1:251. A parasite of *Melanophila fulvoguttata* (Harr.) (Buprestidae).]

SUBFAMILY HORMIINAE<sup>133</sup>

## ECPHYLUS Foerster

- E. hicoriae** Roh. Can. Ent., 1919, 51:161. Syracuse, type locality. Reared from a coleopterous larva in *Hicoria glabra*.  
 [*E. hypothenemi* Ashm. Trans. Am. Ent. Soc., 1896, 23:215. A parasite of *Hypothenemus* sp. (Scolytidae).]  
 [*E. johnsoni* Roh. Proc. U.S. Nat. Mus., 1913, 45:539.]  
 [*E. pallidus* Ashm. Trans. Am. Ent. Soc., 1896, 23:216.]

## CHREMYLUS Haliday

- [*C. terminalis* Ashm. Trans. Am. Ent. Soc., 1893, 20:39. Widely distributed.]

## HORMIUS Nees

- H. americanus** Ashm. Bull. Colorado Biol. Assoc., 1890, 1:16. Ithaca, Aug (Ashm-CU).  
 [*H. completus* (Prov.). Addit. fauna Can. Hymen., 1886, p. 156.]

## ATOREUTES Foerster

- A. astigmus** (Ashm.). Trans. Am. Ent. Soc., 1896, 23:215. Erie Co. Reared from a coleopterous larva in American larch.

## HETEROSPILUS Haliday

- [*H. anthaxiae* (Ashm.). Can. Ent., 1893, 25:77. A parasite of *Anthaxia viridifrons* (Gorey) (Buprestidae).]  
**H. blackmani** Roh. Can. Ent., 1919, 51:161. Syracuse, type locality. From a coleopterous larva in *Hicoria glabra*.  
**H. cephi** Roh. Ithaca, *DRies* (types US, CU), bred from the wheat-stem sawfly, *Cephus pygmaeus* (L.); recorded from the following counties: Wayne, Monroe, Onondaga, Orleans, Genesee, Niagara, Erie, Wyoming, Ontario, Yates, Tompkins, Schuyler, and Cayuga (*DTRies*).  
 [*H. hylotropidis* (Ashm.). Can. Ent., 1893, 25:78. A parasite of *Anacomis lignea* (Fab.) (Cerambycidae).]  
 [*H. languriae* (Ashm.). Can. Ent., 1893, 25:77. A parasite of *Anacomis lignea* (Fab.) (Cerambycidae).]

<sup>133</sup> This and the following subfamily are greatly in need of revision. A thorough study of them will probably result in a decidedly different grouping of the genera.

- [*H. mordellistenae* Vier. Proc. U.S. Nat. Mus., 1911, 39:403. A parasite of *Mordellistena pustulata* (Melsh.) (Mordellidae).]  
 [*H. pityophthori* (Ashm.). Can. Ent., 1893, 25:76. Parasitic on *Polygraphus rufipennis* (Kby.) (Scolytidae).]

## SUBFAMILY ALEIODINAE

(Rhogadinae auctt.)

## EPIRHYSSALUS Ashmead

(Rhyssalus Haliday)

- E. atriceps** (Ashm.). Proc. U.S. Nat. Mus., 1888, 11:628. Ithaca, from *Cacoccia cerasivorana* (Tortricidae) (CU Exp. Sta.). A parasite of various leaf-rollers, including *Archips rosaceana* Harr., and of *Gelechia confusella* Chamb. (Gelechiidae).  
**E. loxoteniae** Ashm. Proc. U.S. Nat. Mus., 1888, 11:628. Perry, IMHawley, reared from the clover Hypena, *Plathypena scabra* Fab. (Noctuidae) (Mues-CU); Ithaca, May (Ashm-CU).

## NOSERUS Foerster

- [*N. pomifoliellae* (Ashm.). Proc. U.S. Nat. Mus., 1888, 11:620. Parasitic on *Bucculatrix pomifoliella* Clem. (Lyonetiidae).]

## CLINOCENTRUS Haliday

- [*C. americanus* Weed. Ill. State Lab. Nat. Hist., 1890, Bull. 3, p. 43.]

## BUCCULATRIPLEX Viereck

- [*B. bucculatricis* (Ashm.). Proc. U.S. Nat. Mus., 1888, 11:618. A parasite of *Bucculatrix* sp. (Lyonetiidae).]  
 [*B. secundus* Vier. Conn. Geol. and Nat. Hist. Surv., 1916, Bull. 22, p. 765. A parasite of *Bucculatrix canadensisella* Chamb. (Lyonetiidae).]

## ALEIODES Wesmael

(Rogas Nees)

- A. abdominalis** (Cress.). Trans. Am. Ent. Soc., 1869, 2:379. Axton, Je (M&H-CU); Norton's Landing, Cayuga L., SmHH (Cress-CU); McLean, Aug 11 (Mues-CU).  
**A. aciculatus** (Cress.). Trans. Am. Ent. Soc., 1869, 2:381. Ithaca, Aug (Ashm-CU); Norton's Landing, Cayuga L., SmHH (Cress-CU); McLean, Je 24 (Mues-CU).  
**A. canadensis** (Cress.). Trans. Am. Ent. Soc., 1869, 2:380. McLean, Aug 31, Sep 1 (Mues-CU).  
 [*A. hyphantriae* Gahan. Proc. U.S. Nat. Mus., 1922, 61:1. A parasite of the fall web-worm, *Hyphantria cunea* Drury.]  
**A. lectus** (Cress.). Trans. Am. Ent. Soc., 1869, 2:379. Ithaca, J1 (Mues-CU).



- [*A. melleus* (Cress.). Trans. Am. Ent. Soc., 1869, 2: 382.]
- A. parasiticus** Norton. Trans. Am. Ent. Soc., 1869, 2: 327. Ithaca, Aug (Ashm-CU); Norton's Landing, Cayuga L., *SmHH* (Cress-CU); W. Danby, May (Ashm-CU). Recorded as a parasite of a sawfly, *Neodiprion abietis* (Harr.).
- [*A. platypterygus* Ashm. Proc. U.S. Nat. Mus., 1888, 11: 633. Recorded as a parasite of the oriental peach moth, *Laspeyresia molesta* Busck.]
- A. rileyi** (Cress.). Trans. Am. Ent. Soc., 1869, 2: 382. Recorded from *Acronycta oblongata* S. & A. (Noctuidae), and the bronzed cutworm, *Nephelodes minians* form *violans* Guenée (Noctuidae). Ithaca, at light (Ashm-CU).
- [*A. scrutator* (Say). Bost. Journ. Nat. Hist., 1836, 1: 254.]
- A. stigmator** (Say). Keating's Narrative of an expedition to the source of St. Peter's River, etc., 1824, 2: 324. Otto (CU); Ithaca, Ap-Aug, at light (CU); Norton's Landing, Cayuga L., *SmHH* (Cress-CU); **LI**: Orient, *Zab* (AM). Our most common species, occurring throughout NY. A gregarious parasite of various species of *Acronycta* (Noctuidae).
- A. terminalis** (Cress.). Trans. Am. Ent. Soc., 1869, 2: 379. Axton, Je (M&H-CU); Ithaca, Je-Jl, at light (Ashm-CU); **LI**: Farmingdale, Jl, *Morrow* (CU). A very common and widely distributed species, occurring throughout NY. A parasite of the army worm, *Cirphis unipuncta* (Haworth).

#### HETEROGAMUS Wesmael

- [*H. fumipennis* (Cress.). Trans. Am. Ent. Soc., 1869, 2: 378. Recorded as a parasite of various sphingid larvae.]

#### SUBFAMILY SIGALPHINAE<sup>134</sup>

(Some of the species in this subfamily are valuable parasites of injurious Lepidoptera; others are important parasites of Coleoptera.)

#### TRIASPIS Haliday

- T. curculionis** (Fitch). Country Gentleman, 1859, p. 221. Ithaca, Jl (Mues-CU); **LI**: Cold Sp. Harb., *Ds* (Beq). A widely distributed parasite of the plum curculio, *Conotrachelus nenuphar* (Herbst).
- T. texanus** (Cress.). Trans. Amer. Ent. Soc., 1872, 4: 179. Ithaca, *Comstock* (Ashm-CU).

#### UROSIGALPHUS Ashmead

- [*U. barberi* Crawford. Insecutor Inscitiae Menstruus, 1914, 2: 23.]
- [*U. femoratus* Crawford. Insecutor Inscitiae Menstruus, 1914, 2: 26.]
- [*U. otidocephali* Cushman. Proc. U.S. Nat. Mus., 1922, 60: 25. A parasite of *Otidoccephalus* (Curculionidae) in sycamore.]
- [*U. robustus* Ashm. Proc. U.S. Nat. Mus., 1888, 11: 638.]

#### SIGALPHUS Latreille

- S. bicolor** (Cress.). Trans. Am. Ent. Soc., 1880, 8: 17. Ithaca, Jl (Mues-CU). Occurs throughout the eastern States. A parasite of certain noctuid larvae. Has been reared from *Apatela clarescens* Guen. (Noctuidae), and probably attacks related forms.

<sup>134</sup> This group includes the Cheloninae and Sigalphinae of Szepligeti and other authors.

## CHELONUS Panzer

- C. aughei** (La Munyon). Proc. Nebr. Assoc. Adv. Science, 1877. Thousand Isls., Sep 4 (Ashm-CU).
- C. basicinctus** Prov. Nat. Can., 1881, 12:198. White L., *Zab* (AM); **LI**: Flatbush, *Zab* (AM).
- [*C. basilaris* (Say). Keating's Narrative of an expedition to the source of St. Peter's River, etc., 1824, 2:322.]
- [*C. brevipennis* Melander & Brues. Biol. Bull., 1903, 5:20.]
- C. concaputus** Vier. Carmel (AM).
- C. fissus** Prov. Nat. Can., 1881, 12:199. Ithaca, Je (Ashm-CU); Norton's Landing, Cayuga L., *SmHH* (Ashm-CU); White L., *Zab* (AM); **LI**: Coney I., *Zab* (AM).
- C. iridescens** Cress. Proc. Ent. Soc. Phila., 1865, 4:294. Manlius, *SmHH* (Cress-CU); Ithaca, Aug (Ashm-CU); Norton's Landing, Cayuga L., *SmHH* (Cress-CU).
- C. lunatus** Hald. Proc. Acad. Nat. Sci. Phila., 1849, 4:203. Rochester, Aug 25 (Ashm-CU).
- [*C. parvus* Say. Bost. Journ. Nat. Hist., 1836, 1:265.]
- C. sassacus** Vier. Conn. Geol. & Nat. Hist. Surv., Bull. 22, 1916, p. 233. **LI**: Flatlands, Fishers I., *Zab* (AM).
- C. sericeus** (Say). Keating's Narrative of an expedition to the source of St. Peter's River, etc., 1924, 2:321. Manlius, *SmHH* (Cress-CU).
- [*C. sobrinus* Hald. Proc. Acad. Nat. Sci. Phila., 1849, 4:203.]

## ASCOGASTER Wesmael

- [*A. carpocapsae* (Vier.). Proc. Ent. Soc. Wash., 1909, 11:43. A widely distributed parasite of the larva of the codling moth, *Carpocapsa pomonella* L. It is also recorded as having been reared from *Gelechia confusella* Cham. (Gelechiidae), and on a single occasion it was reared from the oriental moth, *Cnidocampa flavescens* Wlk. (Eucleidae).]
- A. flaviceps** Ashm. Proc. U. S. Nat. Mus., 1888, p. 636. Norton's Landing, *SmHH* (Ashm-CU).
- A. provancheri** D.T. Cat. Hymen., 1898, 4:196. Ithaca, May-Jl, *Comstock* (Ashm-CU).

## PHANEROTOMA Wesmael

- P. tibialis** (Hald.). Proc. Acad. Nat. Sci. Phila., 1849, 4:203. Ithaca, reared from clover-seed caterpillar by L.P.Wehrle; Freeville, Jl-Aug (Ashm-CU).
- [*P. recurvariae* Cush. Proc. Ent. Soc. Wash., 1914, 16:78. Parasitic on the larva of *Recurvaria crataegella* Busck (Gelechiidae).]

SUBFAMILY NEONEURINAE <sup>135</sup>

The subfamily Neoneurinae constitutes a very rare group, represented in the United States by four known species of the genus *Elasmosoma*. Not more than a very few specimens of any of these occur in any museum collection. They have always been found associated with ants, and observations on European species indicate that they are probably parasitic on them.

<sup>135</sup> This subfamily is not recognized by Szepligeti. For a recent revision, see footnote under Microgasterinae, page 904.

## ELASMOSOMA Ruthe

- [*E. bakeri* Ashm. Proc. Ent. Soc. Wash., 1895, 3:382. Occurs from Me. to N. Mex.]
- [*E. pergandei* Ashm. Proc. Ent. Soc. Wash., 1895, 3:283. Known to occur from Kans. to NJ, and doubtless is present in NY.]
- [*E. schwartzi* Ashm. Proc. Ent. Soc. Wash., 1895, 3:283. Probably occurs throughout the eastern States.]

SUBFAMILY MICROGASTERINAE<sup>136</sup>

The subfamily Microgasterinae is the richest in species of all the subfamilies in the Braconidae. The genus *Apanteles* is a particularly large group, containing nearly two hundred known North American forms. All the species, so far as known, are endoparasites of lepidopterous larvae, some being gregarious parasites, others solitary; and many of them rank among our most valuable natural enemies of injurious insect species.

## MIRAX Haliday

- [*M. aspidiscae* Ashm. Psyche, 1893, 6:378. Recorded as a parasite of *Coptodisca splendoriferella* Clem. (Heliozetidae), and *Laspeyresia prunivora* Walsh (Tortricidae).]
- M. lithocolletidis* Ashm. Psyche, 1893, 6:378. Ithaca (CU). Bred from *Lithocolletes aceriella* Clem. (Gracilariidae).

## ADELIUS Haliday

- [*A. nigripictus* Mues. Proc. U.S. Nat. Mus., 1922, 61:13. A parasite of the poplar leaf-miner.]

## MICROGASTER Latreille

- M. auripes* Prov. Addit. fauna Can. Hymen., 1886, p. 141. Vandalia, Je (Mues-CU); Ithaca, JI, Caroline to Harford, JI, *MacG&Bdy* (Mues-CU). A parasite of *Neleucania albilinea* Hbn. (Noctuidae).
- M. brittoni* Vier. Conn. Geol. and Nat. Hist. Surv., 1916, Bull. 22, p. 202. Rochester Jct., Otto, Ithaca, Taughannock, Spencer L. (all Mues-CU).
- M. carinata* Pck. McLean, Aug 31 (Mues-CU).
- M. canadensis* Mues. Proc. U.S. Nat. Mus., 1922, 61:38. Nyack, Zab.
- M. congregatiformis* Vier. Conn. Geol. and Nat. Hist. Surv., 1916, Bull. 22, p. 202. LI, Zab.
- M. ecdytolophae* Mues. Proc. U.S. Nat. Mus., 1922, 61:24. Mt. Whiteface, 2000-4000 ft.; Freeville; Ithaca (all Mues-CU). A parasite of *Ecdytopha insiticia* Zell. (Tortricidae), and *Psorosina hammondi* Rly. (Pyralidae).
- M. epagoges* Gahan. Proc. U.S. Nat. Mus., 1917, 53:197. Ithaca, Aug (Mues-CU). Described as a parasite of *Sparganothis sulfureana* Clem. (Tortricidae).
- M. facetosa* Weed. Trans. Am. Ent. Soc., 1888, 15:296. Cranberry L., Htly (Mues); Rock City, Je; Caroline to Harford, Je, *MacG&Bdy*; Ellis to Slater-ville; Slater-ville to Caroline, Je, *MacG&Bdy*; Freeville, JI; Rock City, Je; W. Danby, May; Waterville, May (all Mues-CU). A very common species. Recorded as a parasite of *Plathyphena scabra* Fab. (Noctuidae).

<sup>136</sup> For a recent revision of this subfamily, see *A Revision of the North American Ichneumon-Flies Belonging to the Subfamilies Neoneurinae and Microgasterinae*, by C. F. W. Muesebeck. Proc. U. S. Nat. Mus., 1922, 61:1-76.

- M. garmani** (Ashm.). Proc. U.S. Nat. Mus., 1900, 23: 132. **LI**: Flatbush.
- M. gelechiae** Rly. First Ann. Rep. Ins. Mo., 1869, p. 178. Otto (Mues-CU). A parasite of the goldenrod gall-maker, *Gnorimoschema gallaesolidaginis* Rly. (Gelechiidae).
- M. lateralis** Prov. Addit. fauna Canad. Hymen., 1886, p. 141. Cranberry L., *Htlly* (Mues).
- M. pantographae** Mues. Proc. U.S. Nat. Mus., 1922, 61: 34. Ithaca, May-Aug (Mues-CU). Described as a parasite of *Pantographa limata* G. & R. (Pyrilidae).
- M. rubricoxa** Prov. Addit. fauna Can. Hymen., 1886, p. 143. Cayuga Co, J1 22 (Mues-CU); Spring Lake; **LI**.
- [**M. schizurae** Mues. Proc. U.S. Nat. Mus., 1922, 61: 30. A parasite of *Schizura unicornis* S. & A. and *S. concinna* S. & A. (Notodontidae).]
- M. zonaria** Say. Bost. Journ. Nat. Hist., 1836, 1: 263. N. Fair Haven, Sep (Mues-CU); Ithaca, Sep (Mues-CU); **LI**: Flatbush. Recorded as a parasite of species of *Recurvaria* (Gelechiidae).

## MICROPLITIS Foerster

- M. alaskensis** Ashm. Proc. Wash. Acad. Sci., 1902, 4: 249. Manlius, Aug, *SmHH* (Mues-CU); Ithaca, May-J1 (Mues-CU). A very widely distributed species. Recorded as a parasite of *Hadena* and *Plusia* (Noctuidae).
- M. ceratomiae** Rly. Trans. St. Louis Acad. Sci., 1881, 4: 303. Wilmington, Aug 20 (Mues-CU). Doubtless occurs throughout the State. A common parasite of sphingid larvae, particularly *Ceratomia amyntor* Hbn., *Paonias excaecatus* S. & A., *Sphinx drupiferarum* S. & A., and *S. gordius* Stoll.
- M. confusus** Mues. Proc. U.S. Nat. Mus., 1922, 61: 69. Rock City, Je 9, McLean, May (Mues-CU). A parasite of cutworms.
- [**M. croceipes** (Cress.). Trans. Am. Ent. Soc., 1872, 4: 183. Occurs from Colo. to the Atlantic coast. Recorded as a parasite of the corn ear-worm, *Heliothis obsoleta* Fab., and the tobacco bud-worm, *Chloridea virescens* Fab. (Noctuidae).]
- M. gortynae** Rly. Trans. St. Louis Acad. Sci., 1881, 4: 304. Waterville, Je 11, reared from *Gortyna immanis* Gn. (Noctuidae), by IMHawley (Mues-CU); Rye, reared from *Papaipema nebris* Guenée (Noctuidae), by Bird.
- M. hyphantriae** Ashm. Proc. Ent. Soc. Wash., 1897, 4: 164. Ithaca, Je-J1 (Mues-CU). A parasite of fall web-worm, *Hyphantria cunea* Drury (Arctiidae).
- M. kewleyi** Mues. Proc. U. S. Nat. Mus., 1922, 61: 51. Geneva, *Melander*; Ithaca, May, *PettyFW* (Mues-CU). A parasite of cutworm larvae.
- M. laticinctus** Mues. Proc. U. S. Nat. Mus., 1922, 61: 67. Oswego, type locality; Rock City; Forest Lawn; McLean; Hornerstown; Nyack.
- M. mamestrae** Weed. Ill. State Lab. Nat. Hist., 1887, Bull. 3, p. 2. Dryden, Caroline to Harford, Je, *MacG&Bdy* (Mues-CU); Albany, reared from *Cerania picta* Harr. (Noctuidae), by Lintner.
- M. maturus** Weed. Trans. Am. Ent. Soc., 1888, 15: 294. Waterville, May, Ithaca, May-J1 (Mues-CU). A common and widely distributed species.
- M. melianae** Vier. Proc. U.S. Nat. Mus., 1911, 40: 185. Axton, Je (M&H-CU); Caroline to Harford, Je, *MacG&Bdy* (Mues-CU). Recorded as a parasite of *Neleucania albilinea* Hbn., and the armyworm, *Cirphis unipuncta* Haworth (Noctuidae).

- [*M. perplexus* Mues. Proc. U.S. Nat. Mus., 1922, 61:49. A widely distributed species.]
- M. quadridentatus** (Prov.). Addit. fauna Can. Hymen., 1886, p. 140. Ithaca (Mues-CU). Recorded as a parasite of *Simyra henrici* Grt. (Noctuidae).
- M. varicolor** Vier. Conn. Geol. and Nat. Hist. Surv., 1916, Bull. 22, p. 204. Peru, Rock City, Caroline, Slaterville (all Mues-CU). A parasite of *Cirphis unipuncta* Haworth, the army worm, also of *Cirphis* sp. and *Plathypena scabra* Fab. (Noctuidae).

#### APANTELES Foerster<sup>137</sup>

- [*A. acronyctae* Rly. Second Rep. Ins. Mo., 1870, p. 120. Recorded as occurring from Calif. to Me. A gregarious parasite of various species of *Acronycta* (Noctuidae).]
- [*A. alypie* Mues. Proc. U.S. Nat. Mus., 1922, 61:18. A parasite of the larva of a common grape pest, the eight-spotted forester, *Alypia octomaculata* Fab. (Agaristidae).]
- A. anisotae** Mues. Proc. U.S. Nat. Mus., 1920, 58:555. Elmira, CLGriswold. A gregarious parasite of *Anisota senatoria* S. & A. (Citheroniidae).
- A. argynnidis** Rly. Scudder, S. H., Butterflies eastern U. S., 1889, p. 1904. Westport; Ithaca, May (Mues-CU); Ashokan; Rhinebeck; Glens Falls. Reared from *Epargyreus tityrus* Fab. (Hesperiidae), Sep, 1890, at CU Agr. Exp. Sta.
- A. aristoteliae** Vier. Proc. U.S. Nat. Mus., 1912, 42:613. Cranberry L., Htly (Mues-CU); Ithaca, May (Mues-CU); Ellis to Slaterville, and Caroline to Harford, Je, MacG&Bdy (Mues-CU). Occurs throughout the northeastern States, at least from Ill. to Me. A parasite of *Aristotelia fungivorella* Clem., *Gelechia trialbamaculella* Chamb., and *G. confusella* Chamb. (Gelechiidae).
- A. atalantae** (Pck.). Proc. Bost. Soc. Nat. Hist., 1881, 21:27. Waterford, Hebron, JVSchaffner, Jr. A very abundant parasite of the red admiral, *Vanessa atalanta* L., and the small tortoise, *Aglais milberti* Godart. The cocoons are grouped in small masses, completely inclosed in a ball of white silk, much resembling a spider-egg cocoon.
- A. bedelliae** Vier. Proc. U.S. Nat. Mus., 1911, 40:174. LI: Westbury. Recorded as a parasite of *Bedellia minor* Busck, *B. somnulentella* Zell. (Lyonetiidae), *Recurvaria thujaeella* Kf. (Gelechiidae), and *Anomis erosa* Hbn. (Noctuidae).
- A. cacoeciae** Rly. Trans. St. Louis Acad. Sci., 1881, 4:306. Hilton, Je (Mues-CU); Ithaca (Mues-CU); Cohoes, reared from *Tortrix* sp. by THSoden. A common parasite of leaf-rollers from Mo. to Me. Recorded hosts include *Cacoecia semiferana* Wlk. (Tortricidae), *Acrobasis caryae* Grt. (Pyrilidae), and *Tortrix* spp.
- A. canarsiae** Ashm. Proc. Ent. Soc. Wash., 1897, 4:127. Ithaca, J1 (CU). Occurs from Ia. to Me. A parasite of the grape leaf-folder, *Desmia funeralis* Hbn., and the apple leaf-skeletonizer, *Canarsia hammondi* Rly.
- [*A. carduicola* (Pck.). Proc. Bost. Soc. Nat. Hist., 1881, 21:27. Recorded as a parasite of the painted lady, *Vanessa cardui* L.]
- [*A. carpatus* (Say). Bost. Journ. Nat. Hist., 1836, 1:263. A widely distributed parasite of various clothes moths, *Tinea pellionella* L., *Trichophaga tapetzella* L., and *Tineola biselliella* L.]

<sup>137</sup> A revision of the North American ichneumon-flies belonging to the genus *Apanteles*. By C. F. W. Muesebeck. Proc. U. S. Nat. Mus., 1920, 58: 483-576.



- [*A. charadrae* Mues. Proc. U.S. Nat. Mus., 1920, **58**: 567. A gregarious parasite of *Charadra deridens* Guen. (Noctuidae).]
- [*A. choreuti* Vier. Proc. U. S. Nat. Mus., 1912, **42**: 627. Recorded as a parasite of *Choreutis carduiella* Kf. (Glyphipterygidae), and the grape leaf-roller, *Desmia funeralis* Hbn.]
- A. cinctiformis** Vier. Proc. U. S. Nat. Mus., 1911, **40**: 176. Ithaca; McLean, Je-Jl; Malloryville, Je, Caroline to Harford, Ellis to Slaterville, Slaterville to Caroline, Je, *MacG&Bdy*; Mud Cr., Tompkins Co, Je.
- A. clisiocampae** Ashm. N. H. Agr. Exp. Sta., 1903, Bull. 6, p. 229. Auburn, *BAPorter*; Ithaca, *CLLi* (Mues-CU); **LI**: Brooklyn, Aug, *Schott* (Gahan). A rather uncommon solitary parasite of the small larvae of the apple-tree tent-caterpillar.
- [*A. compressus* Mues. Can. Ent., 1919, **51**: 114. Occurs throughout the New England States and undoubtedly is to be found in NY. Recorded as a parasite of *Hypoprepia* sp.]
- [*A. conanchetorum* Vier. Conn. Geol. and Nat. Hist. Surv., 1916, Bull. 22, pp. 191, 199.]
- A. congregatus** (Say). Bost. Journ. Nat. Hist., 1836, **1**: 262. Cranberry L., *Htl* (Mues); Ithaca, Aug (Mues-CU). An exceedingly abundant and widely distributed gregarious parasite of the larvae of a great variety of Sphingidae. Among its hosts are the following species: the tomato worm, *Phlegethontius quinquemaculata* Haworth; the tobacco worm, *P. sexta* Joh.; *Dolba hylaeus* Drury; the hog caterpillar, *Ampeloeca myron* Cramer; Abbott's sphinx, *Sphecodina abbotti* Swainson; and the catalpa sphinx, *Sphinx catalpae* Bois.
- A. consimilis** Vier. Proc. U.S. Nat. Mus., 1911, **40**: 177. McLean, Jl (Mues-CU); **LI**, type locality.
- [*A. crambi* Weed. Ill. State Lab. Nat. Hist., 1887, Bull. 3, **3**: 8. Rather widely distributed east of the Mississippi. A parasite of various species of Crambus.]
- A. crassicornis** (Prov.). Addit. fauna Can. Hymen., 1886, pp. 139, 142. McLean, Aug 1 (Mues-CU).
- A. cyaniridis** Rly. Scudder, S. H., Butterflies eastern U. S., 1889, p. 1903. Ellis to Slaterville, Je 13, *MacG&Bdy* (Mues-CU). A parasite of *Lycaenopsis pseudargiolus* B. & L.
- A. delicatus** How. U.S. Bur. Ent., Tech. Ser., 1897, Bull. 5, p. 54. Ithaca, Je 25 (Mues-CU); **LI**: Brooklyn. A parasite of the white-marked tussock moth, *Hemerocampa leucostigma* S. & A.
- [*A. diacrisiae* Gahan. Proc. U.S. Nat. Mus., 1917, **53**: 198. Throughout the eastern States. A gregarious parasite of certain Arctiidae, including the common yellow bear, *Diacrisia virginica* Fab.]
- [*A. dolicocephalus* Mues. Proc. U.S. Nat. Mus., 1920, **58**: 503.]
- [*A. edwardsii* Rly. Scudder, S. H., Butterflies eastern U.S., 1889, p. 1901. A parasite of the red admiral, *Vanessa atalanta* L.]
- [*A. empretiac* Vier. Proc. U.S. Nat. Mus., 1913, **44**: 562. A gregarious parasite of the saddle-back caterpillar, *Sibine stimulea* Clem.]
- A. ensiger** (Say). Bost. Journ. Nat. Hist., 1836, **1**: 260. Axton, Je, *M&H* (Mues-CU); Oswego; Spencer L., Je (Mues-CU); **LI**.
- A. euchaetis** Ash. Proc. Ent. Soc. Wash., 1897, **4**: 159. Cambridge, Meadowbrook, *JVSchaffner*. A very abundant parasite of the milkweed tussock caterpillar, *Euchaetias egle* Drury.

- A. euphydryidis** Mues. Proc. U. S. Nat. Mus., 1920, **58**: 564. McLean, May 27, 1909 (Mues-CU). A parasite of the Baltimore, *Euphydryas phaeton* Drury.
- A. femur-nigrum** (Prov.). Addit. fauna Can. Hymen., 1886, pp. 139, 142. Axton, Je (M&H-CU); Peru, Je (Mues-CU); Spencer L., Je (Mues-CU); Ithaca, Je-Aug, Mud Cr., Je, Dryden L., Je (Mues-CU); McLean, JI (Mues-CU); Slaterville to Caroline, Je, Ellis to Slaterville, Je, *MacG&Bdy* (Mues-CU); Middletown, JI, *CSSpooner* (Mues-CU). Common in the northeastern States and in Canada.
- [*A. fiskei* Vier. Proc. U.S. Nat. Mus., 1910, **38**: 379. A parasite of various species of *Olene* (Lymantriidae).]
- [*A. flaviconchae* Rly. Trans. St. Louis Acad. Sci., 1881, **4**: 308. Parasitic on the army worm, *Cirphis unipuncta* Haworth, the sulphur butterfly, *Eurymus philodice* Godart, and the clover hypena, *Plathypena scabra* Fab.]
- A. forbesi** Vier. Proc. Ent. Soc. Wash., 1910, **11**: 208. Ithaca, JI (Mues-CU). Doubtless to be found throughout the State. A common species. Recorded as a parasite of the cutworms, *Cirphis unipuncta* Haworth, *Polia renigera* Stephens, and *Feltia* sp.
- A. fumiferanae** Vier. Proc. U.S. Nat. Mus., 1912, **42**: 139. Cranberry L., *Htly* (Mues). A parasite of *Harmologa fumiferana* Clem. (Tortricidae).
- A. glomeratus** (L.). Syst. Nat., Ed. 10, 1758, **1**: 568. Ithaca, JI-Aug (Mues-CU). A cosmopolitan and very important parasite of the larvae of the cabbage butterfly, *Pieris rapae* L.
- A. griffini** Vier. Proc. U.S. Nat. Mus., 1911, **40**: 177. Waterville (Mues-CU). A very common and widely distributed parasite of various cutworm larvae.
- [*A. harti* Vier. Proc. Ent. Soc. Wash., 1910, **11**: 209. A parasite of *Pyrausta penitialis* Grt. and *P. ansleyi* Hein. (Pyralidae).]
- A. hemileucae** Rly. Trans. St. Louis Acad. Sci., 1881, **4**: 309. Karner, *Felt*, reared from *Hemileuca maia* Drury (Saturniidae).
- A. hydriae** Mues. Proc. U.S. Nat. Mus., 1920, **58**: 561. Ithaca, Sep 9 (Mues-CU). A common parasite of *Calocalpe undulata* L. (Geometridae).
- A. laeviceps** Ashm. Bull. Colo. Biol. Assoc., 1890, **1**: 17. Ithaca, bred from a noctuid (Ashm-CU). Widely distributed, but apparently restricted to the higher elevations. A gregarious parasite of cutworms.
- A. limenitidis** (Rly.). Third Ann. Rep. Ins. Mo., 1871, p. 158. Ithaca to Ellis, Je, *MacG&Bdy* (Mues-CU). Occurs at least from Mo. to Me. A not uncommon parasite of the small larvae of the viceroy, *Basilarchia disippe* Godd.
- A. lunatus** (Pck.). Proc. Bost. Soc. Nat. Hist., 1881, **21**: 28. Recorded from NY. A rather widely distributed solitary parasite of the small larvae of various species of *Papilio*. The cocoon is large and deep yellow in color.
- A. militaris** Walsh. Trans. Ill. State Agric. Soc., 1861, **4**: 27. Occurs throughout NY. A common and widely distributed gregarious parasite of the army worm, *Cirphis unipuncta* Haworth.
- A. murtfeldtae** Ashm. Proc. Ent. Soc. Wash., 1897, **4**: 159. Cranberry L., *Htly* (Mues); Ithaca (Mues-CU). Found from Mass to Mo. A gregarious parasite of geometrid larvae.
- [*A. nemoriae* Ashm. Proc. Ent. Soc. Wash., 1897, **4**: 160. A parasite of various Geometridae, including *Haematopsis grataria* Fab., *Eupithecia miserulata* Grt., and *Pleuroprucha insulsaria* Guen.]

- [*A. nephopteris* (Pck.). Proc. Essex Inst., 1864, 4:122. A parasite of the larva of *Vitula edmansii* Pck. (Pyralidae), which feeds on the comb in nests of bumblebees.]
- [*A. nigrovariatus* Mues. Proc. U.S. Nat. Mus., 1920, 58:523.]
- A. parastichtidis** Mues. Homer, Jl 2, 1908 (Mues-CU). On *Parastichtis bicolorago* Guen. (Noctuidae).
- A. ornigis** Weed. Ill. State Lab. Nat. Hist., 1897, Bull. 3, p. 6. Throughout the State. Reared by GWHerrick from the maple case-bearer, *Paraclemensia acerifoliella* Fitch; also recorded from *Ornix geminatella* Pck. (Gracilariidae), and various species of Lithocolletes. A common parasite of many different leaf-mining Lepidoptera.
- [*A. orobeneae* Fbs. Twelfth Rep. Nox. Ins. Ill., 1882, p. 104. Parasitic on the larvae of the cross-striped cabbage-worm, *Evergestis rimosalis* Guen.]
- A. paleacritae** Rly. Trans. St. Louis Acad. Sci., 1881, 4:313. Dryden L., Je (Mues-CU). Throughout at least the northeastern States. A solitary parasite of the cankerworms, *Alsophila pometaria* Harr. and *Paleacrita vernata* Peck.
- A. papaipemae** Mues. Proc. U.S. Nat. Mus., 1920, 58:526. Rye, type locality, reared by HCBird from *Papaipema nebris* Guen. and *P. maritima* Bird (Noctuidae).
- [*A. phigaliae* Mues. Can. Ent., 1919, 51:113. A parasite of *Phigalia titea* Cram. (Geometridae). The cocoons are grouped and are rather strongly ribbed, resembling cocoons of Microplitis.]
- A. phobetri** Roh. Proc. U.S. Nat. Mus., 1915, 49:228. Cranberry L., Htly (Mues). A common gregarious parasite of the banded tussock caterpillar, *Halisidota tessellaris* S. & A.
- [*A. pholisora* Rly. Scudder, S. H., Butterflies eastern U.S., 1889, p. 1904. A parasite of *Pholisora catullus* Fab. (Hesperiidae).]
- A. polychrosidis** Vier. Proc. U.S. Nat. Mus., 1912, 42:615. Ithaca; McLean; Ellis to Slaterville, Je, *MacG&Bdy* (Mues-CU); Rhinebeck, Jl, Cy (Mues-CU). Probably throughout the State. A parasite of the grape berry moth, *Polychrosis viteana* Clem., *P. liriodendrana* Kf., the oblique-banded leaf-roller, *Cacoecia rosaceana* Harr., and other species with similar habits.
- [*A. pyralidis* Mues. Proc. U.S. Nat. Mus., 1920, 58:552. Occurs at least from Ill. to Mass. A parasite of *Nomophila noctuella* Denis & Schiff. (Pyralidae), and the garden web-worm, *Loxostege similalis* Guen. The cocoons are very small, pure white, and in groups.]
- [*A. pyraustae* Vier. Proc. U.S. Nat. Mus., 1912, 42:626. A common parasite of *Pyrausta futilalis* Lederer (Pyralidae). The cocoons are white, in groups, and usually formed within the thin cocoon made by the mature host larva.]
- A. radiatus** Ashm. Proc. Ent. Soc. Wash., 1897, 4:162. Ithaca, Je 20 (Ashm-CU).
- A. rohweri** Mues. (*nigripes* Rohw.). Proc. U.S. Nat. Mus., 1920, 58:550. Ithaca, Jl (Mues-CU); Ellis to Slaterville, Je, *MacG&Bdy* (Mues-CU); McLean, Aug 31 (Mues-CU).
- A. robiniae** (Fitch). Fifth Rep. Ins. N. Y., Trans. N. Y. State Agric. Soc., 1858, p. 836. Described from NY. A parasite of *Recurvaria robinella* Fitch (Gelechiidae).
- A. rufocoxalis** Rly. Trans. St. Louis Acad. Sci., 1881, 4:310. Batavia. A parasite of the army worm, *Cirphis unipuncta* Haworth.

- [*A. sarrothripae* Weed. Ill. State Lab. Nat. Hist., 1897, Bull. 3, p. 3. A gregarious parasite of *Nycteola revayana* Scop. (Noctuidae), *Melalopha inclusa* Hbn. (Notodontidae), and *Peronea permutana* Duponchel (Tortricidae).]
- A. schizurae** Ashm. Proc. Ent. Soc. Wash., 1897, 4: 162. Rochester. A parasite of *Schizura unicornis* S. & A. (Notodontidae).]
- [*A. scitulus* Rly. Trans. St. Louis Acad. Sci., 1881, 4: 310. Widely distributed, at least east of the Mississippi. A gregarious parasite of the yellow bear, *Diacrisia virginica* Fab., and *Acronycta* spp. (Noctuidae).]
- [*A. smerinthus* Rly. Trans. St. Louis Acad. Sci., 1881, 4: 311. A widely distributed and common gregarious parasite of the larvae of various Sphingidae, including the twin-spotted sphinx (*Smerinthus jamaicensis geminatus* Say), the blind-eyed sphinx (*Paonias excaecatus* S. & A.), and *Ceratomia undulosa* Wlk.]
- A. terminalis** Gahan. Proc. Ent. Soc. Wash., 1912, 14: 2. **LI**, type.
- [*A. tischeriae* Vier. Proc. U.S. Nat. Mus., 1912, 42: 140. A parasite of the trumpet miner, *Tischeria malifoliella* Clem.]
- [*A. xylinus* (Say). Bost. Journ. Nat. Hist., 1836, 1: 262. A very widely distributed and very abundant parasite of cutworms. The cocoons are in groups, and are encased in a ball of white silk.]

## SUBFAMILY BRACONINAE

(*Agathidinae* auctt.)

(The host relations and habits of only a comparatively small number of species of this subfamily are known; but apparently all are parasitic on lepidopterous larvae.)

## AGATHIS Latreille

- A. femorator** Prov. Nat. Can., 1880, 12: 177. Ithaca, Aug 20–Sep 1 (Morr-CU).
- A. perforator** Prov. Nat. Can., 1880, 12: 177. Oswego; Ithaca, Aug–Sep (Morr-CU).
- A. rubripes** Cress. Trans. Am. Ent. Soc., 1872, 4: 183. Slaterville to Caroline. Je, Ellis to Slaterville, Je, Dryden L., Mud Cr., Malloryville, Je, *MacG&Bdy* (Morr-CU).
- [*A. tibiator* Prov. Nat. Can., 1880, 12: 177.]

BRACON Jurine, Fab., not auctt.<sup>138</sup>(*Cremnops* auctt.)

- B. comstocki** Morr. Proc. U.S. Nat. Mus., 1917, 52: 323. Ithaca, Je–Jl (Morr-CU); Ithaca to Ellis; Freeville.
- B. montrealensis** Morr. Proc. U.S. Nat. Mus., 1917, 52: 326. Ithaca, Jl–Sep (Morr-CU).
- [*B. nigrosternum* Morr. Proc. U.S. Nat. Mus., 1917, 52: 332.]
- B. virginensis** Morr. Proc. U.S. Nat. Mus., 1917, 52: 341. Ithaca, Aug 16 (Morr-CU).

<sup>138</sup> Monograph of the nearctic Hymenoptera of the genus *Bracon* Fabricius. By Harold Morrison. Proc. U. S. Nat. Mus., 1917, 52: 305–343.

## CRASSOMICRODUS Ashmead

**C. divisus** (Cress.). Can. Ent., 1873, 5: 52. Ithaca, Aug (Ashm-CU).

**BASSUS** Fabricius

(*Microdus* auctt.)

- B. agilis** (Cress.). Can. Ent., 1873, 5: 52. Ithaca, Je-Jl (Ashm-CU). Apparently the most common species in this genus. A widely distributed parasite of leaf-rollers, particularly of species of *Archips*.
- [**B. albocinctus** (Ashm.). Proc. U.S. Nat. Mus., 1888, 11: 639. Occurs throughout the eastern States.]
- B. annulipes** (Cress.). Can. Ent., 1873, 5: 53. Ithaca, Aug (Mues-CU); Mud Cr., Je, *MacG&Bdy* (Mues-CU).
- B. bicolor** (Prov.). Nat. Can., 1880, 12: 179. McLean, Sep 19 (Mues-CU).
- B. calcaratus** (Cress.). Can. Ent., 1872, 5: 51. McLean, Sep 15 (Mues-CU). Common in the northeastern States at least. A parasite of *Acrobasis caryivorella* Rag., *A. betulella* Hulst (Pyralidae), and *Gelechia trialbamaculella* Chamb. (Gelechiidae).
- [**B. carpocapsae** Cush. Proc. U.S. Nat. Mus., 1915, 48: 508. A parasite of the codling moth, *Carpocapsa pomonella* L.]
- B. cinctus** (Cress.). Can. Ent., 1873, 5: 53. McLean, Aug 1 (Mues-CU); NYC.
- [**B. coleophorae** Roh. Proc. U.S. Nat. Mus., 1915, 49: 230. Parasitic on the larva of *Coleophora leucochrysella* Clem., and doubtless also on other species of that genus.]
- [**B. discolor** (Cress.). Can. Ent., 1873, 5: 52.]
- B. earinoides** (Cress.). Can. Ent., 1873, 5: 52. New Russia, Aug 11, *Bdy* (Mues-CU); Baldwinsville, Jl (Ashm-CU); Ithaca, Je-Jl (Ashm-CU); Norton's Landing, Cayuga L., *SmHH* (Ashm-CU); LI: Farmingdale, Jl, *Morr* (Mues-CU). A parasite of *Spilonota ocellana* Schiff., the common bud moth on apple.
- [**B. grapholithae** (Ashm.). Proc. U.S. Nat. Mus., 1888, 11: 639. Widely distributed over at least the eastern half of the U.S.]
- B. imitatus** (Cress.). Can. Ent., 1873, 5: 51. Ithaca, Jl-Aug (Ashm-CU).
- B. nigricoxus** (Prov.). Addit. fauna Can. Hymen., 1886, pp. 137-138. Oswego.
- B. perforator** (Prov.). McLean, Aug 22 (Mues-CU).
- B. sanctus** Say. Bost. Journ. Nat. Hist., 1836, 1: 249. Ithaca, Jl (Ashm-CU). Commonly collected in the eastern States. Nothing is known of its host relations.
- [**B. similimus** (Cress.). Can. Ent., 1873, 5: 51.]
- B. laticinctus** Cress. Can. Ent., 1873, 5: 53. Ithaca, reared from the clover-seed caterpillar, *Laspeyresia interstinctana* Cl., by LPWehrle.

**EARINUS** Wesmahl

- E. limitaris** (Say). Bost. Journ. Nat. Hist., 1836, 1: 250. Waterville (Mues-CU); Ithaca, abundant in early spring (*Bdy*-CU); McLean, Apr 17, *Babiy* (*Bdy*-CU); SI, Ap 16 (*Ds*).



SUBFAMILY **BLACINAE**<sup>139</sup>

The Blacinae are only imperfectly known from the standpoint of classification, and also as regards habits and biology. The species of some genera appear to be exclusively parasites of lepidopterous larvae, while those of other genera parasitize Coleoptera, and, in a few instances, Diptera.

**BLACUS** Nees

- B. lactucaphis** (Fitch). First Rep. Ins. N.Y., 1854, p. 136. Described from NY, as an Aphidius.  
 [*B. orchesia* (Ashm.). Proc. U.S. Nat. Mus., 1888, 11:645. Recorded as a parasite of *Orchesia castanea* Melsh. (Melandryidae).]

**ORGILUS** Haliday

- O. gelechiaevara** Cush. Proc. U.S. Nat. Mus., 1920, 58:291. A parasite of *Gelechia trialbamaculella* Chamb.  
 [*O. kearfotti* Ashm. Journ. N. Y. Ent. Soc., 1903, 11:144. A parasite of *Recurvaria juniperella* Kf.]

**EUBADIZON** Nees

- [*E. americanus* Cress. Can. Ent., 1872, 4:230. Occurs throughout the northeastern States and in Canada.]  
 [*E. gracilis* Prov. Nat. Can., 1880, 12:171. Range extends at least from Canada to Va. It has been recorded as a parasite of the oriental peach moth, *Laspeyresia molesta* Busck.]  
 [*E. phymatodis* Ashm. Proc. U.S. Nat. Mus., 1888, 11:644.]  
**E. pleuralis** Cress. McLean, Je 24, Sib (Mues-CU).

**BRACHISTES** Wesmael

- B. magdali** (Cress.). Psyche, 1878, 2:189. Syracuse. A parasite of the larvae of *Magdalis barbata* Say and *M. olyra* (Hbst.) (Curculionidae).  
**B. major** (Cress.). Can. Ent., 1872, 4:229. Occurs in NY.  
 [*B. tibiator* (Cress.). Can. Ent., 1872, 4:229. Said to be a parasite of the strawberry weevil, *Anthonomus signatus* Say.]

**SYRRHIZUS** Foerster

- [*S. diabroticae* Gahan. Ohio Journ. Sci., 1922, 22:141. A parasite of the adult striped cucumber-beetle, *Diabrotica vittata* (Fab.).]

**LEIOPHRON** (Nees) Haliday

- [*L. americanus* (Ashm.). Journ. Cincinnati Soc. Nat. Hist., 1895, 17:47. A parasite of the Hessian fly.]

SUBFAMILY **ICHNEUTINAE**

The subfamily Ichneutinae constitutes a small group, containing but few described species. Those forms the habits of which are known, attack sawfly larvae.

<sup>139</sup> Includes Calyptinae, Leiophroninae, and Blacinae of Szepligeti's classification.

## ICHNEUTES Nees

[*I. bicarinatus* (Ashm.). Can. Ent., 1891, 23:4.]

[*I. bicolor* Cress. Can. Ent., 1872, 4:230.]

**I. fulvipes** Cress. Can. Ent., 1872, 4:231. Ithaca, May 26 (Mues-CU); McLean, Aug 12, *SRobinson* (Mues-CU).

## ICHNEUTIDEA Ashmead

**I. secunda** Roh. Ent. News, 1908, 19:149. Saranac L., Aug (Mues-CU); Rochester, JI, *Leon* (Mues-CU); Ithaca, Sep (Mues-CU).

## SUBFAMILY CARDIOCHILINAE

## CARDIOCHILÈS Nees

The genus *Cardiochiles* comprises the subfamily *Cardiochilinae*. But little is known regarding the habits and host relations of the various species.

**C. tibiator** (Say). Keating's Narrative of an expedition to the source of St. Peter's River, etc., 1824, 2:323. Ithaca, JI (Mues-CU). Occurs from Canada to Fla.

[*C. viator* (Say). Bost. Journ. Nat. Hist., 1836, 1:258. Distributed over most of the US.]

## SUBFAMILY MACROCENTRINAE

## MACROCENTRUS Curtis

**M. aciculatus** Prov. Addit. fauna Can. Hymen., 1888, p. 380. Thousand Isls., Sep (Ashm-CU).

**M. amicropoides** Vier. Proc. U.S. Nat. Mus., 1913, 43:579. Bethany Center, type locality. A parasite of the apple leaf-roller, *Archips argyrospila* Wlk.

**M. cerasivoranae** Vier. Proc. U.S. Nat. Mus., 1912, 42:623. Ithaca, type locality. The type was reared from the ugly-nest tortricid, *Archips cerasivorana* Fitch, by GWHerrick. This is a very large species, and a very common parasite of the above-named host.

[*M. delicatus* Cress. Trans. Am. Ent. Soc., 1872, 4:178. Recorded as a parasite of *Mincola indigenella* Zell. (Pyrilidae), the codling moth, *Carpocapsa pomonella* L., and *Archips fervidana* Clem. (Tortricidae).]

**M. iridescens** French. Can. Ent., 1880, 12:43. Ithaca, JI-Sep, at light (Ashm-CU). A parasite of *Ennomos subsignarius* Hbn. (Geometridae).

**M. nuperus** Cress. Trans. Amer. Ent. Soc., 1872, 4:178. Ithaca, JI, at light (Ashm-CU).

**M. plesius** Vier. McLean, Je 24-Aug 23 (Mues-CU).

**M. pyraustae** Vier. McLean, Aug 20-24, *Sib* (Mues-CU).

**M. terminalis** (Ashm.) (*Zelet terminalis* Ashm.). Proc. U.S. Nat. Mus., 1888, p. 300. Ithaca, Je, from *Archips* (CU).

**M. uniformis** Prov. Nat. Can., 1880, 12:173. Norton's Landing, Cayuga L., *SmHH* (Ashm-CU); **LI**: Flatbush, *Zab* (AM).

SUBFAMILY **ZELIINAE**<sup>140</sup>**ZELE** Curtis

- Z. truncator** (Say). Contrib. Maclur. Lyc. Phil., 1828, 2: 78. Ithaca, J1, at light (Ashm-CU).

SUBFAMILY **HELCONINAE**

(The species of this rather poorly known group appear on the whole to be parasitic on the larvae of wood-boring Coleoptera.)

**EUMACROCENTRUS** Ashmead

- [*E. americanus* (Cress.). Can. Ent., 1873, 5: 84. Occurs at least from Canada to Va.]

**HELCONIDEA** Viereck

- H. albitarsis** (Cress.). Can. Ent., 1873, 5: 83. Huguenot Pk. (Mues-CU).  
**H. borealis** (Cress.). Can. Ent., 1873, 5: 83. Indian Falls, Je (Mues-CU). Northeastern States. Parasitic on cerambycid larvae.  
**H. ligator** (Say). Keating's Narrative of an expedition to the source of St. Peter's River, etc., 1824, 2: 323. Syracuse, reared by B&S from coleopterous larvae in hickory; New Baltimore, from *Neoclytus acuminatus* (Fab.) (Cerambycidae) (AM); Nyack, *Zab* (AM).

**HELCON** Nees(*Gymnoscelus* Foerster)

- [*H. pedalis* Cress. Can. Ent., 1873, 5: 85. Throughout the northeastern States. Recorded as a parasite of a larva of *Xylotrechus* (Cerambycidae) in dead hemlock.]

SUBFAMILY **OPIINAE**<sup>141</sup>

(The members of this subfamily are mostly parasitic on phytophagous Diptera belonging to the families Agromyzidae, Trypetidae, and Anthomyiidae.)

**OPIUS** Wesmael

- O. anthomyiae** Ashm. Proc. U.S. Nat. Mus., 1888, 11: 654. Honeoye Falls, J1, *Leon* (Mues-CU); Ithaca, Aug (Mues-CU). Parasitic on an anthomyiid mining the leaves of dock.  
**O. apicalis** Gahan. Proc. U.S. Nat. Mus., 1915, 49: 85. Ithaca, Je-J1 (Mues-CU); Ellis to Slaterville, Caroline to Harford, Je, *MacG&Bdy* (Mues-CU).  
**O. bruneipes** Gahan. Can. Ent., 1913, 45: 148. Chipmunk Swamp, Mix Cr. Val., Cattaraugus Co, Je (Mues-CU); Caroline to Harford, Je, *MacG&Bdy* (Mues-CU).  
**O. cincticornis** Gahan. Proc. U.S. Nat. Mus., 1915, 49: 78. Oswego, type locality.

<sup>140</sup> Included in Macrocentrinae by Szepligeti.

<sup>141</sup> A revision of the North American ichneumon-flies of the subfamily Opiinae. By A. B. Gahan. Proc. U. S. Nat. Mus., 1915, 49: 63-95.

- O. cinctus* Prov. Addit. fauna Can. Hymen., 1886, p. 124. Potsdam, J1 (Mues-CU); Norton's Landing, Cayuga L., *SmHH* (Mues-CU); Ellis to Slaterville, Caroline to Harford, Je, *MacG&Bdy* (Mues-CU).
- O. cupidus* Gahan. Proc. Ent. Soc. Wash., 1919, 21:162. NYC, type locality, *HBS*haw; **LI**: Brooklyn, reared from *Pegomyia hyoscyami* (Panzer) by Montague Free.
- O. dimidiatus* (Ashm.). Proc. U.S. Nat. Mus., 1888, 11:647. Ithaca, J1 (Mues-CU). A common parasite of *Agromyza pusilla* Meig.
- [*O. ferrugineus* Gahan. Proc. U.S. Nat. Mus., 1915, 49:75.]
- O. foveolatus* Ashm. Proc. U.S. Nat. Mus., 1888, 11:654. Norton's Landing, Cayuga L., *SmHH*, Ithaca, J1 (Mues-CU); Ellis to Slaterville, Je, *MacG&Bdy* (Mues-CU).
- O. fuscipennis* Gahan. Proc. U.S. Nat. Mus., 1915, 49:79. McLean, Aug 19, *SRobinson* (Mues-CU); Ithaca, J1 (Mues-CU).
- O. luteiceps* Vier. Trans. Kans. Acad. Sci., 1905, 19:271. Mix Cr. Val., Cattaraugus Co, Je (Mues-CU).
- O. mandibularis* Gahan. Proc. U.S. Nat. Mus., 1915, 49:81. Pine I. (FrostSW), from *Pegomyia pusilla* Meig.
- O. politus* Prov. Nat. Can., 1883, 14:16. Ithaca, May-Je (Mues-CU).
- O. provancheri* D.T. Cat. Hymen., 1898, 4:64. Axton, Je, *M&H* (Mues-CU); Caroline to Harford, Je, *MacG&Bdy* (Mues-CU); Freeville, J1 (Mues-CU); McLean, Aug 31 (Mues-CU).
- O. quebecensis* (Prov.). Nat. Can., 1881, 12:201, fig. 28. Ithaca, reared from *Pegomyia calypttrata* Zett. by FrostSW.
- O. sanguineus* Ashm. Proc. U.S. Nat. Mus., 1888, 11:655. Recorded from NY. A parasite of Trypetidae.
- O. striativentris* Gahan. Proc. U.S. Nat. Mus., 1915, 49:89. **LI**: Westbury, Ap 7, from *Phytomyza ilicis* Curtis (Felt).
- O. succineus* Gahan. Can. Ent., 1913, 45:149. Slaterville to Caroline, Je, *MacG&Bdy* (Mues-CU); Florida (FrostSW), from *Agromyza parvicornis* Lw.; Pine I. (FrostSW), from *A. pusilla* Meig.
- O. tibialis* Ashm. Can. Ent., 1893, 25:79. Durlandville (FrostSW), from *Agromyza melanoptyga* Lw.
- O. utahensis* Gahan. Can. Ent., 1913, 45:145. Florida (FrostSW), from *Agromyza parvicornis* Lw.

## SUBFAMILY EUPHORINAE

But little is known regarding the habits and biology of members of this group, but most of the species are apparently parasitic on various Coleoptera.

## PERILITUS Nees

- [*P. epitricis* Vier. Proc. U.S. Nat. Mus., 1912, 42:625. Reported from N. J., and probably occurs in NY. A parasite of the tobacco flea-beetle, *Epitrix parvula* (Fab.).]
- [*P. gastrophysae* Ashm. Proc. U.S. Nat. Mus., 1888, 11:641. Recorded as a parasite of *Gastroidea cyanea* Melsh. (Chrysomelidae).]

## COSMOPHORUS Ratzeburg

- C. hopkinsi** Ashm. Trans. Am. Ent. Soc., 1896, 23:216. Reported from NY as a parasite of *Pityokteines sparsus* (Lec.). The type, from N. J., was reared from *Polygraphus rufipennis* (Kby.). (Both Scolytidae.)

## WESMAELIA Foerster

- W. americana** Myers. Proc. U.S. Nat. Mus., 1917, 59:293. Ithaca, Aug 30 (Mues-CU), allotype. This is the only species of this genus known to occur in the US.

## EUPHORUS Nees

- E. mellipes** Cress. Can. Ent., 1872, 4:227. Ithaca, May (Ashm-CU); Norton's Landing, Cayuga L., *SmHH* (Ashm-CU).  
**E. scitulus** Cress. Can. Ent., 1872, 4:227. Norton's Landing, Cayuga L., *SmHH* (Ashm-CU).

## EUPHORIANA Gahan

- [*E. uniformis* Gahan. Proc. U.S. Nat. Mus., 1913, 46:433, fig. 1. A parasite of *Meromyza americana* Fitch.]

## DINOCAMPUS Foerster

- D. coccinellae** (Schr.). Fauna Boica., 1802, 2:310. Axton, Je, *M&H* (Mues-CU); Victor, Je (Mues-CU). A cosmopolitan species, which is an internal parasite of adult Coccinellidae. It has been referred to in literature under a variety of names, including *Dinocampus terminatus* Nees, *Perilitus americanus* Rly., and *Euphorus sculptus* Cress.

SUBFAMILY METEORINAE<sup>142</sup>

This subfamily is comprised of the single genus *Meteorus*, most of the species of which are internal parasites of lepidopterous larvae, although a few are apparently parasitic on Coleoptera. Some of them are very abundant, and exert a decided check on the increase of injurious species.

## METEORUS Haliday

- M. angustipennis** Mues. Proc. U.S. Nat. Mus., 1923, 63:20. This species has been taken at Ithaca.  
 [*M. autographae* Mues. Proc. U.S. Nat. Mus., 1923, 63:30. Occurs throughout the eastern part of the US, having been recorded from Canada to Fla. It has been reared from larvae of the cabbage looper (*Autographa brassicae* Rly.), the army worm (*Cirphis unipuncta* Haworth), the alfalfa borer (*Eurymus corythae* Boisd.), and the clover hypena (*Plathypena scabra* Fab.).]  
**M. bakeri** Cook & Ds. Mich. Agr. Exp. Sta., 1891, Bull. 73, p. 9. Oswego. A parasite of the fall web-worm, *Hyphantria cunea* Drury, but not nearly so abundant as *M. hyphantriae*, which also attacks this host.

<sup>142</sup> A revision of the North American species of ichneumon-flies belonging to the genus *Meteorus* Haliday. By C. F. W. Muesebeck. Proc. U.S. Nat. Mus., 1923, 63:1-144.



- M. communis** (Cress.). Can. Ent., 1872, 4:82. Occurs throughout the State. A widely distributed and abundant parasite of a variety of hosts, but most frequently reared from Noctuidae, especially the army worm (*Cirphis unipuncta* Haworth) and cutworms. Also recorded from the tent caterpillar (*Malacosoma americana* Fab.) and the green-fruit worm (*Grapholitha laticinerea* Grt.).
- [*M. datanae* Mues. Proc. U.S. Nat. Mus., 1923, 63:38. A parasite of *Datana integerrima* G. & R., *D. ministra* Drury, and *D. angusii* G. & R. (Notodontidae).]
- M. dimidiatus** (Cress.). Can. Ent., 1872, 4:83. Throughout the State. Occurs from Calif. to Me. Recorded as a parasite of the grape-leaf folder, *Desmia funeralis* Hbn.
- [*M. hicoriae* Mues. Proc. U.S. Nat. Mus., 1923, 63:25. Type locality is Harrisburg, Pa. The species is undoubtedly in NY.]
- M. humilis** (Cress.). Can. Ent., 1872, 4:84. Oswego, Spencer L. The species has also been referred to in literature under the names *M. robustus* (Prov.), *M. orchesiae* Ashm., and *M. agilis*. The recorded hosts include *Orchesia castanea* Melsh. (Melandryidae), *Platydemia ellipticum* (Fab.) (Tenebrionidae), and *Tinea oregonella* Busck.
- M. hyphantriae** Rly. U.S. Dept. Agric. Div. Ent., 1887, Bull. 10, p. 49. Occurs throughout NY. A parasite of the fall web-worm, *Hyphantria cunea* Drury, especially; but has been reared from various hosts, including the tent caterpillar (*Malacosoma americana* Fab.), the forest tent caterpillar (*M. disstria* Hbn.), the white-banded tussock caterpillar (*Hemerocampa leucostigma* S. & A.), *Neleucania albilinea* Hbn. (Noctuidae), the fall cankerworm (*Alsophila pometaria* Harr.), and the spring cankerworm (*Paleacrita vernata* Peck).
- [*M. indagator* (Rly.). Fourth Ann. Rep. Ins. Mo., 1872, p. 43. Widely distributed from Calif. to Mass. A parasite of leaf-rollers, especially of various species of Acrobasis and Mineola.]
- [*M. loxostegei* Vier. Proc. U.S. Nat. Mus., 1911, 39:401. Occurs from Colo. to Mass. Must certainly occur in NY. Parasitic on the larvae of the sugar-beet web-worm, *Loxostege sticticalis* L., *Pyrausta nubilalis* Lederer, and the European corn-borer, *P. nubilalis* Hbn.]
- M. maximus** Mues. Proc. U.S. Nat. Mus., 1923, 63:13. New Salt, JI, 1903 (ESSouthworth).
- [*M. niveitarsis* (Cress.). Can. Ent., 1872, 4:81. Throughout the northeastern States. Host unknown.]
- [*M. pallitarsis* (Cress.). Can. Ent., 1872, 4:80. Distribution same as for *niveitarsis*.]
- M. politus** (Prov.). Addit. fauna Can. Hymen., 1886, p. 126. McLean, Aug 24-31, Sib, *SRobinson* (Mues-CU). Occurs in the Canadian provinces Quebec and Ontario, and in the northeastern US.
- M. proximus** (Cress.). Can. Ent., 1872, 4:83. Oswego; Stony I.; Thousand Isls.
- M. tauricornis** (Prov.). Nat. Can., 1880, 12:168. Oswego; Saranac L.; Spring Lake; Ithaca; Slaterville; McLean, Aug 26, *SRobinson* (Mues-CU); **LI**: Flatbush.
- M. tibialis** Mues. Proc. U.S. Nat. Mus., 1923, 63:23. Syracuse, type locality, *Drk*.
- M. trachynotus** Vier. (*archipsidis* Vier.). Proc. U.S. Nat. Mus., 1912, 42:142. Spring Lake, *Bdy* (Mues-CU); Youngstown; Bethany Center, Genesee Co. (type of *archipsidis*), reared from *Archips argyrospila* Wlk.; McLean, July 20-

Aug 24 (Mues-CU) ; Little Falls. Additional hosts are *Harmologa fumiferana* Clem., and the strawberry leaf-roller, *Ancylis comptana* Froelich (both Tortricidae).

- M. vulgaris** (Cress.). Can. Ent., 1872, 4: 83. McLean, J1 10-Aug 24 (Mues-CU). Probably the most common and most widely distributed of the North American species. Occurs throughout the US and much of Canada. An abundant parasite of Noctuidae of the cutworm type. Recorded from various species of Feltia, Euxoa, and Scotogramma.

#### SUBFAMILY APHIDIINAE<sup>143</sup>

All the species of the Aphidiinae are internal parasites of aphids. The entire developmental period is spent within the body of the host, the adult parasite finally emerging by cutting a circular hole in the aphid shell. The host is killed at the time when the parasitic larva completes its growth, and accordingly aphids which contain pupae or adults of the parasite are readily distinguished in the field. As a rule development is very rapid, most species passing through many generations in a season. Some of them are very important parasites of particularly injurious aphids. But they are themselves subject to extensive parasitism by certain secondary parasites, especially by cynipoids belonging to the genus Charips and by various species of chalcidoids.

#### EPHEDRUS Haliday

- E. incompletus** Prov. Addit. fauna Can. Hymen., 1886, p. 156. Lockport, Je 14, from *Myzus cerasi* (Fab.) (Bdy-CU). Widely distributed over the eastern half of the US and in Canada. Recorded as a parasite of *Myzus cerasi* (Fab.), *Macrosiphum rosae* (L.), and *Tritogenaphis rudbeckiae* (Fitch).  
[*E. nitidus* Gahan. Proc. U.S. Nat. Mus., 1917, 53: 195. A parasite of the cabbage aphid, *Brevicoryne brassicae* (L.).]

#### PRAON Haliday

- [*P. americanus* (Ashm.). Proc. U.S. Nat. Mus., 1888, 11: 669. Recorded as attacking the apple grain aphid, *Rhopalosiphum prunifoliae* (Fitch).]  
**P. cerasaphis** (Fitch). First Rep. Ins. N.Y., 1855, p. 138. Described from NY material reared from the cherry aphid.  
**P. humalaphidis** Ashm. Proc. U.S. Nat. Mus., 1888, 11: 657. Richfield Sps., type locality.  
**P. simulans** (Prov.). Addit. fauna Can. Hymen., 1856, p. 153. Ithaca, J1, *Griswold* (Gahan-CU). A parasite of *Tritogenaphis rudbeckiae* (Fitch); also reared at Ithaca by Miss Griswold from *Illinoia pisi* (Kalt.) and *Macrosiphum cornelli* Patch.  
**P. viburnaphis** Fitch. First Rep. Ins. N.Y., 1856, p. 137. Described from NY. The identity of the species is somewhat uncertain. Gahan (Md. Agr. Exp. Sta., 1911, Bull. 152, p. 197) states that a specimen in the U.S. Nat. Mus., which is labeled as type but which does not fully agree with the description, is a species of *Lysiphlebus*. The species is here provisionally retained in the genus *Praon*.

#### APHIDIUS Nees

- [*A. avenaphis* (Fitch). Sixth Rep. Ins. N. Y., 1865, p. 98. A parasite of the apple grain aphid, *Rhopalosiphum prunifoliae* (Fitch), and *Macrosiphum cerealis* (Kalt.).]

<sup>143</sup> Aphidiinae of North America. By A. B. Gahan. Md. Agr. Exp. Sta., 1911, Bull. 152, p. 147-200.

- [*A. crassicornis* Ashm. Can. Ent., 1891, 23: 5.]
- A. nigripes** Ashm. N.Y. Mus., 1901, Bull. 47, p. 588. Saranac Inn, type locality, Ndm. Recorded as an efficient parasite of *Macrosiphum granaria* (Kby.).
- A. phorodontis** Ashm. Proc. U.S. Nat. Mus., 1888, 11: 662. Ithaca (CU). A parasite of *Phorodon mahaleb* Koch and *Rhopalosiphum dianthi* (Schr.).
- [*A. polygonaphis* (Fitch). First Rep. Ins. N.Y., 1856, p. 136. This species has been referred to in literature under the names *Aphidius canadensis* Prov., *A. obscurus* Prov., *A. pallidus* Ashm., *A. nigriceps* Ashm., and *Lysiphlebus succineus* Vier. It is a parasite of *Tritogenaphis rudbeckiae* (Fitch) and *Illinoia liriodendri* (Monell).]
- [*A. procephalis* Ashm. Proc. U.S. Nat. Mus., 1888, 11: 659. Recorded as a parasite of *Procephalus* sp.]
- [*A. ribis* Haliday. Ent. Mag., 1835, 2: 101. A widespread parasite of *Cryptomyzus ribis* (L.).]
- A. rosae** Haliday. Ent. Mag., 1833, 1: 261, and 1835, 2: 197. Ithaca, Griswold (Gahan-CU), from *Illinoia pisi* (Kalt.). A common parasite of *Macrosiphum rosae* (L.).

#### LYSIPHLEBUS Foerster

- L. testaceipes** (Cress.). Rep. U.S. Com. Agr. for 1879, p. 208. Buffalo (Mues-CU). A very common species, occurring throughout the US as a parasite of a great variety of hosts, including *Aphis gossypii* Glov., *A. maidis* Fitch, *Hysteroneura setariae* (Thos.), *Brevicoryne brassicae* (L.), *Anuraphis maidiradicis* (Fbs.), *Cryptomyzus ribis* (L.), *Macrosiphum granaria* Kby., *M. cerasi* (Fab.), *M. rosae* (L.), *M. cucurbitae* (Thomas), and *Rhopalosiphum prunifoliae* (Fitch). The species has been referred to under a large number of names. For a complete record of this synonymy see Gahan, Md. Agr. Exp. Sta., 1911, Bull. 152, p. 186.

#### SUBFAMILY ALYSIINAE<sup>144</sup>

The Alysiinae, in so far as their habits are known, are parasitic on the larvae and pupae of Diptera. Some exert an important degree of control on injurious species, while others live as hyperparasites, attacking primary parasites of the family Tachinidae. But the group as a whole is very poorly understood, from the standpoint of biology as well as that of classification. Unquestionably there are many species belonging to this subfamily in New York, but the identification of most of these must await revision of the group.

#### APHAERETA Foerster

- [*A. muscae* Ashm. Proc. U.S. Nat. Mus., 1888, 11: 646. Common throughout the eastern States as a parasite of various Diptera.]
- [*A. oscimidis* Ashm. Proc. U.S. Nat. Mus., 1888, 11: 647.]
- [*A. pallipes* (Say). Contrib. Maclur. Lyc. Phila., 1828, 2: 77.]

#### CRATOSPILA Foerster

- [*C. ridibunda* (Say). Contrib. Maclur. Lyc. Phila., 1828, 2: 77.]

<sup>144</sup> Includes Dacnusinae and Alysiinae of Szepligeti's system.

## GRAMMOSPILA Foerster

- G. triticaphis** (Fitch). Sixth Rep. Ins. N.Y., Trans. N.Y. Agr. Soc., 1860, p. 840. NY, type locality. According to Gahan (Md. Agr. Exp. Sta., 1911, Bull. 152, p. 152), this species, which was described as an aphidiine in the genus *Toxares*, is probably a *Grammospila*.

## BRACHYSTROPHA Foerster

- B. quadriceps** Ashm. N. Y. State Mus., 1901, Bull. 47, p. 587. Saranac Inn, type locality, *Ndm.*

## COELINIDEA Viereck

- [*C. ferruginea* Gahan. Proc. U.S. Nat. Mus., 1913, 46: 434. A parasite of *Meromyza americana* Fitch.]  
 [*C. meromyzae* (Fbs.). Thirteenth Rep. Ins. Ill., 1884, 13: 26. An abundant and widely distributed parasite of *Meromyza americana* Fitch. It attacks the egg of its host, but the parasitic larva does not mature until after the *Meromyza* has pupated.]

## RHIZARCHA Foerster

- R. stigma** Ashm. N.Y. State Mus., 1901, Bull. 47, p. 587. Saranac Inn, type locality, *Ndm.*

## DACNUSA Haliday

- D. agromyzae** Gahan. Can. Ent., 1913, 45: 153. Tarrytown, reared from *Phytomyza obscurella* Fall. by FrostSW.  
**D. scaptomyzae** Gahan. Can. Ent. 1913, 45: 150. Reared at Ithaca, as a parasite of *Pegomyia calypttrata* Zett. (FrostSW); recorded also as a parasite of *Scaptomyza flaveola* Meig.

FAMILY ICHNEUMONIDAE <sup>145</sup>

Compiled by R. A. CUSHMAN

SUBFAMILY LYSIOGNATHINAE <sup>146</sup>

## LYSIOGNATHA

- L. comstocki** Ashm. Ithaca, *SmHH* (types-US, CU).

## SUBFAMILY JOPPINAE

(*Ichneumoninae* auctt.)

(So far as is known, the members of this subfamily are parasitic in the pupae of Lepidoptera.)

<sup>145</sup> The nomenclature and arrangement of this family, with the exception of the inclusion of Lysioagnathinae as a subfamily, have been entirely in the hands of Mr. Cushman, to whom the editors furnished such records, published and otherwise, as were available to them.

<sup>146</sup> The editors are responsible for ranking the genus Lysioagnatha as a subfamily of Ichneumonidae, rather than as a separate family as placed in Mr. Cushman's manuscript. This was done to bring it into conformity with the classification adopted for the order as a whole.

Tribe **JOPPINI**

**PSILOMASTAX** Tischbein

- P. vulpinus** (Grav.) (*Trogus exesorius* Brullé). Keeseville, Je, *Fisher* (Cush-US); Albion (Hasey-CU); Ithaca, Je-Jl (Hasey-CU); Karner, Je, Nassau, May (NYS); New Baltimore, *Zab* (Hasey-AM); Nyack, *Zab* (AM); West Farms, *Angus* (AM); **LI**: Flatbush, *Zab* (AM); Long Beach (Hasey-AM). Parasite on *Papilio*.

**TROGUS** Panzer

- T. brullei** Cress. **SI**, Jl (Ashm-Ds). A parasite of hawk-moths.  
**T. canadensis** Prov. Ithaca, Je, Aug (Gahan-NYS, US); Poughkeepsie, Aug (NYS); **SI**, Aug-Sep (Ashm-Ds).  
**T. copei** Cress. New Russia, Aug 12, *Bdy* (Hasey-CU).  
**T. elegans** Cress. Oswego, Jl (Vier-US); Ithaca, Jl-Aug (Hasey-CU).  
**T. nubilipennis** Hald. **LI**: Long Beach, Jl (Cush-Schott, US).  
**T. obsidianator** Brullé. New Russia, Aug, *Bdy* (Hasey-CU); L. Pleasant, Jl (NYS); Forest Lawn, *Zab* (AM); Ithaca, Jl-Aug (Hasey-CU); Poughkeepsie, Aug (NYS); Rensselaer, Je (NYS); **LI** (Vier-US). Parasite on *Papilio polyxenes* Fab.

**TROGOMORPHA** Ashmead

- T. ferrugator** (Fab.) (*trogiformis* Cress.). Ilion, May, *Yg* (NYS).

Tribe **AMBLYTELINI**

(*Ichneumonini* auctt.)

**TRACHICHNEUMON** Viereck

- T. confirmatus** (Cress.). Waterville (Martin-CU); Oswego, Ap (US); Ithaca, Mar (Martin-CU, US); McLean, Sep 16, 1924, *Sib* (Bdy-CU); Normanskill, Ap, *Yg* (NYS); Port Chester, Jl, *Yg* (NYS).

**ECTOPIMORPHA** Viereck

- E. anceps** (Cress.). Ithaca, Jl 31, 1918, *Yuasa* (Bdy-CU); Norton's Landing, Cayuga L., May 30, 1872, *SmHH* (Cress-CU); **LI**: Rockaway (Martin-AM).

**AMBLYTELES** Wesmael

(*Ichneumon* auctt. and *Amblyteles* auctt.)

- A. acerbus** (Cress.). Saranac Inn, Jl, Keene Val., Aug, *Yg* (NYS); Axton, Je, *M&H* (Martin-CU); Adirondacks, Aug (Martin-CU); McLean, May 30-Sep 24, *Sib*, *SRobinson* (Bdy-CU).  
**A. agnitus** (Cress.). Ithaca, Je (Martin-CU); White L., *Zab* (Martin-AM).  
**A. annulipes** (Cress.). Mt. Whiteface, 3800 ft., Jl, *Ald* (Cush-US); Cranberry L., Je 11-Jl 26, *Hilly* (Cush-US, NYS Col. For.); Manlius, Aug, Norton's Landing, Je, *SmHH* (Cress-CU); McLean, Sep 3, *Sib* (Cush-CU); Poughkeepsie, May (NYS); Nyack (AM).



- A. apertus** (Cress.). New Russia, Aug 18, *Bdy* (Martin-CU); Albany, Je-Jl (NYS).
- A. ater** (Cress.). West Farms, *Angus* (AM). Locality may be doubtful (Leon).
- A. atrifrons** (Cress.). **LI**: Flatbush, *Zab* (Martin-AM).
- A. atrox** (Cress.). Ithaca, Mar (Martin-CU).
- A. azotus** (Cress.). Karner, Aug (NYS); Nyack (Martin-AM).
- A. bimembris** (Prov.). **LI** (Ashm-CU).
- A. blandii** (Cress.). **LI** (Ashm-US).
- A. brevicinctor** (Say) (*extrematis* [Cress.]). Newport, Je (NYS); Ilion, May (NYS); Manlius, Sep, *SmHH* (Cress-CU); Oswego, Je (US); Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); Ithaca, May-Aug (Martin, Cress-CU); McLean, May (Martin-CU), Aug 28, *Sib* (Bdy-CU); Caroline to Harford, Je 15, *MacG&Bdy* (Martin-CU); Dryden L., Je, *MacG&Bdy* (Martin-CU); Albany, Je (NYS); Pine I. (AM); Nyack (Martin-AM); West Farms (Martin-AM); **SI** (Vier); **LI**: Flatbush (Martin-AM). Parasite on *Pyrausta nubilalis* Hueb., the European corn-borer.
- A. brevipennis** (Cress.). Axton, Je, *M&H* (Ashm-CU); Johnstown, Ap, Kenwood, Jl (NYS).
- A. bronteus** (Cress.). Old Forge, Jl, *Yg* (NYS).
- A. caeruleus** (Cress.). Elizabethtown, Johnstown, Aug (NYS); Mt. Whiteface, 3800 ft., Jl, *Ald*, Cranberry L., Je, *Htly* (Cush-US); Oswego, May, Aug (Ashm-US); Forest Lawn (Martin-AM); Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); Ithaca, May (Martin-CU); Nyack, *Zab* (Ashm-US, Martin-AM).
- A. caliginosus** (Cress.). Ithaca, Je, Freeville, Jl (Martin-CU).
- A. centrator** (Say) (*flavicornis* [Cress.]). Newport, Jl, *Yg* (NYS); Ithaca, Mar-Sep, common (Martin-CU, US); Ellis to Slaterville, Je, *MacG&Bdy* (Martin-CU); McLean, Ap 17, *Babiy*, Je 20, *Sib* (Bdy-CU); Albany, Ap, *Yg* (NYS); Rensselaer, May (NYS); Poughkeepsie, May, Jl (NYS); Hillburn, Dec, *Schott* (US); Nyack (Martin-AM); West Farms (Martin-AM); **SI**, Nov (Martin-AM, Ashm-Ds); **LI**: Flatbush (Martin-AM); "NY" (type of *flavicornis*-ANSP). Host: *Isia isabella* S. & A. (Arctiidae).
- A. cincticornis** (Cress.) (*galenus* [Cress.]). Albion (Martin-CU); Manlius, Sep, *SmHH* (Martin-CU); Rochester Jct., Je, *Leon* (Martin-CU); Ithaca, Ap-Aug (Martin-CU); McLean, Jl (Martin-CU); Newfield, Je, *MacG* (Martin-CU); Albany, Sep, Rensselaer, Mar (NYS); Normanskill, Ap (NYS); Big I., Mosholu (AM); West Farms (Martin-AM); **SI**, Ap (Martin-AM, Ashm-US); **LI**: Flatbush, *Zab* (Martin-AM); Prospect Pk. (Martin-AM); Cold Sp. Harb. (Martin-AM); Riverhead, Oct, *Russell* (Cush-US); Farmingdale, Jl, *Morrow* (Martin-CU). Host, *Autographa brassicae* Riley (Noctuidae).
- A. cinctitarsis** (Prov.). New Russia, Aug, *Bdy* (Martin-CU).
- A. comes** (Cress.). New Russia, Aug, *Bdy* (Martin-CU); Keene Val., Jl, *Yg*; Saranac Inn, Jl, *Yg*; Manlius, Aug, *SmHH* (Martin, Cress-CU); Cattaraugus, Sep (Martin-CU); Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); McLean, Jl 11-25, *Sib* (Bdy-CU); Albany, Je, *Yg*; Poughkeepsie, Je, *Yg*.
- A. comptus** (Say). Speculator, Aug (NYS); Ithaca, Aug (Martin-CU); Poughkeepsie, Je, *Yg* (NYS); West Farms (Martin-AM); **SI** (Vier).
- A. corvinus** (Cress.). Albany, Je (NYS).
- A. creperus** (Cress.). Keene Val., Jl (NYS); Albion (Martin-CU); Ithaca, Sep (NYS).

- A. detritus** (Brullé). Coy Glen, Ithaca, Sep (Martin-CU); Barneveld, *Wolcott*.
- A. devinctor** (Say). Ithaca, Jan-Je (Martin-CU); McLean, Apr 17, 1925, *Babiy* (Bdy-CU); **SI** (Vier, Ashm-Ds); **LI**: Parkville (Martin-AM).
- A. duplicatus** (Say) (*signatipes* [Cress.]). New Russia, Aug, Bdy (Martin-CU); Rock City, Je (Martin-CU); Mud Cr., Je, *MacG&Bdy* (Martin-CU); Ithaca, May-Aug (Martin-CU); Norton's Landing, Cayuga L., May-Je, *SmHH* (Martin&Cress-CU); McLean, Jl 25-Sep 17, *Sib*, *SRobinson* (Bdy-CU); Albany, Je, Poughkeepsie, May, *Yg* (NYS); Nyack; **LI**: Flatbush, *Zab*, Rockaway (Martin-AM).
- A. electus** (Cress.). Ithaca, May (Martin-CU).
- A. feralis** (Cress.). Keene Val., Aug (NYS).
- A. finitimus** (Cress.). McLean, Aug 22, 1924, *Sib* (Cush-CU).
- A. funestus** (Cress.). Ithaca, Taughannock, Norton's Landing, McLean (Bdy-CU); New Russia, Axton (Bdy-CU); Oswego, Sep (Gahan-US); Nyack, *Zab* (US); **LI** (Vier).
- A. fuscifrons** (Cress.). McLean, Sep 16, 1924, *Sib* (Cush-CU).
- A. germanus** (Cress.). McLean, Aug 12, 1924, *Sib* (Bdy-CU); Johnstown, Aug, Poughkeepsie, May, *Yg* (NYS).
- A. grandis** (Brullé). New Russia, Aug, *Bdy* (Martin-CU); Johnstown, Sep; Canandaigua L., Jl (NYS); Otto, Sep, *Comst* (Martin-CU); Olean, Sep (Martin-CU); Norton's Landing, Cayuga L., Je, *SmHH* (Martin&Cress-CU); McLean, Sep 3, *Sib* (Bdy-CU); Nyack, West Farms (Martin-AM).
- A. helvipes** (Cress.). Oswego, Jl (Ashm-US); **LI**: Flatbush, Je, *Zab* (Martin-AM, Ashm-US).
- A. humillimus** (D.T.) (*humilis* [Prov.]). Gloversville, Ap (NYS).
- A. improvisus** (Cress.). McLean, Aug 26-Sep 4, *Sib*, *SRobinson* (Bdy-CU); **LI** (Vier).
- A. inconstans** (Cress.). Rochester Jct., Jl, *Leon* (Martin-CU); Norton's Landing, Cayuga L., Je, *SmHH* (Martin-CU); Ithaca, Taughannock, Greenville, Jl (Martin-CU).
- A. instabilis** (Cress.). Axton, Je, *M&H* (Martin-CU); Ithaca, May-Jl (Martin-CU); Huguenot, *Zab* (AM).
- A. jejunos** (Cress.). Albany, Je, Aug (NYS); Nyack, *Zab* (Martin-AM); West Farms, *Angus* (Martin-AM); **LI** (Vier, Cush-US).
- A. jucundus** (Brullé) (*flavizonatus* [Cress.]). Keene Val., Jl-Aug (NYS); Albion (Martin-CU); Gloversville, Mar, *Bks* (NYS); Oswego, Aug (US); Rochester Jct., Jl, *Leon* (Martin-CU); Pike, Je (NYS); Otto, Je, *Comst* (Martin-CU); Ithaca, Ap-Aug (Ashm, Martin-NYS, CU); Norton's Landing, Cayuga L., Je, *SmHH* (Martin&Cress-CU); West Farms, *Angus* (Martin-AM); **LI**: Flatbush, *Zab* (Martin-AM). Host: *Papaipema* (Noctuidae).
- A. lachrymans** (Prov.). Utica, *Pergande* (Cush-US); McLean, Jl 25-Aug 19, *SRobinson* (Cush-CU).
- A. laetus** (Brullé) (*canadensis* [Prov.]). New Russia, Aug, *Bdy* (Martin-CU); Newport, Aug, *Yg* (NYS); Axton, Je, *M&H* (Martin-CU); Oswego, Aug (US); Rochester, Aug (Martin-CU); Manlius, Jl-Sep, *SmHH* (Martin-CU); Buffalo, Nov, *MCV*, Stony L., Jl (US); Pike, Je, *Yg* (NYS); Clifton Sps., Aug, *Comstock* (Martin-CU); Otto, Sep, *Comstock* (Martin-CU); Ithaca, Je-Aug (Martin-CU, NYS); Taughannock, Jl (Martin-CU); Norton's Landing, Cayuga L., Je, *SmHH* (Martin-CU); McLean, Jl-Sep 20 (Martin-CU); Binghamton, Sep, *Ellsworth* (Martin-CU); Albany, Sep, *Yg* (NYS); Stock-

- port, May, *Currie* (US); Poughkeepsie, Je, *Yg* (NYS); Nyack (Martin-AM); Rye, Sep, *Bird*; West Farms, *Angus* (Martin-AM); **SI**, J1 (Vier, Ashm-Ds); **LI**: *Bird* (Crawford); Flatbush, *Zab*, Fishers I., J1 (Martin-AM); Farmingdale, Je, *Morrow* (Martin-CU). Parasite on pupa of most *Papaipema* which pupate in burrows (*Bird*); also on the army worm (*Kngt*).
- A. leucaniae** (Fitch) (*seminiger* [Cress.]). Rochester Jct., J1, *Leon* (Martin-CU); Clifton Sps., Aug (Martin-CU); Ithaca, Ap-J1 (Martin-CU); Forest Home, Ap (NYS); Nyack (Martin-AM); West Farms (Martin-AM); **LI**: Hunting-ton, Ap, *Schott* (Cush); Rockaway, Long Beach, Flatbush, *Zab* (Martin-AM). Parasite on the army worm.
- A. leviculus** (Cress.). Ithaca, Je (Martin-CU); Poughkeepsie, May (NYS).
- A. lewisii** (Cress.). Ithaca, May, J1 (Martin-CU); Nassau, May (NYS); West Farms (Martin-AM); **SI**, *Zab* (Martin-AM); **LI**: (Vier); Flatbush, *Zab* (Martin-AM).
- A. lewisii** var. **sandix** (Cress.). "NY" (type-ANSP); **LI** (Cush-US).
- A. libens** (Cress.). "NY" (Cress.).
- A. luctus** (Cress.). Axton, Je, *M&H* (Martin-CU); Canandaigua L., J1 (NYS), from a noctuid larva.
- A. malacus** (Say). Peru, May (Martin-CU); Manlius, Sep, *SmHH* (Martin&Cress-CU); Clifton Sps., Sep, *Comstock* (Martin-CU); Ithaca, Aug (Martin-CU); McLean, Aug 30-Sep 20, *Sib* (Bdy-CU); West Farms (Martin-AM); **SI** (Martin-AM); **LI**: (Vier-US); Flatbush, *Zab* (Martin-AM); Rockaway (Martin-AM).
- A. maurus** (Cress.). Saranac Inin, Wells, J1 (NYS); **SI** (Vier); **LI** (Ashm-Ds).
- A. mellicoxus** (Prov.). Oswego, Aug (Cush-US).
- A. mellipes** (Prov.). "NY", *Baker* (Cush-US).
- A. mendax** (Cress.). Gloversville, Pike, May, *Yg* (NYS); Ithaca, Feb-May (Martin-CU); Rensselaer, May, *Yg* (NYS).
- A. merus** (Cress.). Poughkeepsie, Je, *Yg* (NYS).
- A. milvus** (Cress.). New Russia, Aug, *Bdy* (Martin-CU); Canandaigua L., J1 (NYS); McLean, Aug 30-Sep 1, *SRobinson* (Bdy-CU).
- A. mimicus** (Cress.). Axton, Je, *M&H* (Martin-CU); Ithaca, May-Aug (Martin-CU).
- A. montanus** (Cress.). Manlius, Sep, *SmHH* (Martin&Cress-CU).
- A. munificus** (Cress.). Manlius, Sep, *SmHH* (Martin-CU); Ithaca, Aug-Sep (Martin-CU); McLean, Sep 3, *Sib* (Bdy-CU); Nyack, *Zab* (Cush-US).
- A. nanodes** Cush. (*nanus* [Cress.]). L. George (AM); **LI**: Flatbush, *Zab* (Martin-AM).
- A. navus** (Say). Old Forge, J1 (NYS); Ithaca, Mar, J1 (Martin-CU, NYS); Nyack, *Zab* (Cush-US); **SI**, Ap-May (Vier, Ashm-Ds); **LI**: Flatbush (Martin-AM).
- A. nortoni** (Cress.). Nyack (Martin-AM).
- A. nubivagus** Cress. Nyack, *Zab* (AM); **LI**: Flatbush, *Zab* (Ashm).
- A. nuncius** (Cress.). **SI**, Ap (Ashm-Ds).
- A. ormenus** (Cress.). Ithaca, Aug (Martin-CU).
- A. ornatus** (Cress.). "NY" (Cress-Am.Ent.Soc.). This is obviously not an *Amblyteles*, but its proper placing without study of specimens is impossible.
- A. orpheus** (Cress.). McLean, Aug 31, 1925, *SRobinson* (Bdy-CU); Delmar, Ap, Poughkeepsie, Je (NYS); West Farms (Martin-AM).

- A. otiosus** (Say). Gloversville, Ap (NYS); Ithaca, May (Martin-CU).
- A. paratus** (Say). New Russia, Aug, *Bdy* (Martin-CU); Manlius, Je, Norton's Landing, Cayuga L., Jl, *SmHH* (Martin&Cress-CU); Ithaca, May-Aug (Martin-CU); McLean, Aug 22, *Sib* (Bdy-CU); Ft. Montgomery, Aug, *Schott* (Cush); Poughkeepsie, Jl (NYS); Bear Mt., *Schott* (Cush-US); Nyack (Martin-AM); **LI**: Long Beach (Martin-AM); Flatbush, *Zab* (Martin-AM).
- A. parvus** (Cress.). Elizabethtown, Aug (NYS); Lancaster, Sep, *MCV* (Cush-US); Ithaca, Sep (Martin-CU, NYS); McLean, Je 13-Sep 3, *Sib*, *SRobinson* (Bdy-CU); West Farms, *Angus* (AM).
- A. pepticus** (Cress.). Nyack (Cush-US).
- ?**A. pequoitorum** Vier. **LI** (Cush-US).
- A. pervagus** (Cress.). Ithaca, Jl (Cush-US); **LI**: Flatbush, *Zab* (Martin-AM).
- A. pilosulus** (Prov.). Ithaca, Jl (Martin-CU).
- A. provancheri** Cush. (*bifasciatus* [Prov.]). New Baltimore (Martin-AM).
- A. proximus** (Cress.). "NY" (Martin-AM).
- A. pulcher** (Brullé). **LI**: Rockaway (Martin-AM).
- A. pullatus** (Cress.). (*subcyanus* [Cress.]). New Russia, Je, *Bdy* (Martin-CU); Manlius, Sep, *SmHH* (Martin-CU); Oswego, Je (Cush-US); Syracuse, *Blkm* (Cush-US); Poughkeepsie, Jl (NYS); Nyack (Martin-AM); West Farms (Martin-AM); **LI**: Flatbush, *Zab* (Cush-US). Host: *Diacrisia virginica* Fab.
- A. putus** (Cress.). "NY", *Baker* (Cush-US).
- A. quadrizonatus** Vier. Ithaca, Sep (Martin-CU).
- A. quebecensis** (Prov.). Newport, Jl, Gloversville, Aug, *Yg* (NYS); McLean, Je 20-Jl 11, *SRobinson* (Bdy-CU).
- A. restrictus** (Cress.). "NY" (Cress.).
- A. rubicundus** (Cress.). Ithaca, May-Aug (Martin-CU); Norton's Landing, Cayuga L., Je, *SmHH* (Cress&Martin-CU).
- A. rufiventris** (Brullé). Axton, Je, *M&H* (Martin, Ashm-CU); Mt. Marcy, Jl, Sacandaga R., Aug (NYS); Ithaca, Jl (Martin-CU); Norton's Landing, Cayuga L., Je, *SmHH* (Martin&Cress-CU); Ft. Montgomery, Jl (Cush-Schott); **LI**: Brooklyn (Martin-US).
- A. rufizonatus** (Cress.). Oswego, Sep (Ashm-US); Ithaca, Jl (Martin-CU).
- A. sagus** (Cress.). **LI**: Rockaway (Martin-AM).
- A. saucius** (Cress.). Albany, Aug (NYS); **LI** (Vier).
- A. scelestus** (Cress.). Oswego, Je (Ashm-US); Ithaca, Ap-Je (Martin-CU); Rensselaer, Mar, *Yg* (NYS); Normanskill, Ap, *Yg* (NYS); Rye, Aug, *Bird*, on *Papaipema impecuniosa*; **LI**: (Ashm-US); Flatbush (Martin-AM).
- A. scriptifrons** (Cress.). **LI** (Vier).
- A. solitus** (Cress.). **LI** (Vier).
- A. soror** (Cress.). Ithaca, *Chitt* (Cush-US); **LI**: Wyandanch, Dec (Cush-Schott).
- A. stadaconensis** (Prov.). Old Forge, Je (NYS).
- A. stygicus** (Prov.). Oswego, Jl (Gahan-US); McLean, Jl 18 (Cush-CU).
- A. subdolos** (Cress.). Potsdam (Martin-CU); Johnstown, Jl, *Alex* (Cush-US); Oswego, Je (Cush-US); Caroline to Harford, Je, *MacG&Bdy* (Martin-CU); West Farms, *Ang* (Martin-AM); **SI** (Vier); **LI** (Vier).



- A. subfuscus** (Cress.). New Baltimore, *Zab* (AM); **SI**, Oct (Vier, Ashm-Ds).
- A. sublatius** (Cress.) (*pravus* [Cress.] ♀). Oswego, Je (Cush-US); Manlius, Jl-Sep, *SmHH* (Martin&Cress-CU); Canandaigua L., Jl, *Yg* (NYS); Rock City, Je (Martin-CU); Gowanda, Aug, *EPV* (Ashm-US); Norton's Landing, Cayuga L., Je, *SmHH* (Martin&Cress-CU); Ithaca, Aug (Martin-CU, NYS); McLean, ♀, Sep 20-24, 1924, *Sib* (Bdy-CU), ♂, Jl 28-Aug 29 (Bdy-CU); Poughkeepsie, Je, *Yg* (NYS); Nyack (Ashm, Martin-US, AM); **SI** (Vier, Ashm-Ds); **LI** (Cush-US); Long Beach (Martin-AM); Flatbush, *Zab* (Martin-CU). Reared from *Heterocampa guttivitta* Wlk. (Notodontidae), in Me. and Mass.
- A. subrufus** (Cress.). Potsdam (Martin-CU); Ithaca, Ap (Martin-CU); West Farms, *Angus* (AM).
- A. succinctus** (Brullé). Rochester Jct., Je, *Leon* (Martin-CU); Ithaca, Jl-Sep (Martin-CU, US); Taughannock, Jl, McLean (Martin-CU); Albany, Sep (NYS); West Farms, *Angus* (Martin-AM); **LI** (Vier).
- A. suturalis** (Say). Keene Val., Jl, Gloversville, Mar (NYS); **LI**: Huntington, Nov, *Schott* (Cush-US).
- A. tetricus** Prov. "NY" (Ashm).
- A. truculentus** (Cress.). "NY" (Martin-AM); Ithaca, Je (NYS).
- A. ultimus** (Cress.). Ithaca, Je (Martin-CU). Determination doubtful.
- A. ultus** (Cress.). Axton, Je, *M&H* (Martin-CU); Norton's Landing, Cayuga L., Je, *SmHH* (Martin-CU); Ithaca, Je (Martin-CU); Nyack (Martin-AM).
- A. ultus** var. **regalis** (Cress.). "NY" (Cress).
- A. uncinatus** (Cress.). Albany, Je (NYS).
- A. unifasciatus** (Say). Oswego, Aug-Sep (Ashm-US); Manlius, Sep, *SmHH* (Martin&Cress); Niagara Falls, Aug, *MCV* (Cush-US); Ithaca, Je-Sep (Martin-CU, NYS); McLean, Aug 11-Sep 24, *Sib*, *SRobinson* (Bdy-CU); Nyack (Martin-AM); West Farms (Martin-AM); **LI**: (Ashm-US); Sea Cliff (CU); Sands Pt., Ap (Martin-AM); Flatbush, *Zab* (Martin-AM). Parasite on *Apatela obliqua* S. & A. (Noctuidae), and the hickory tussock caterpillar, *Halisidota caryae* Harr.
- A. utilis** (Cress.). "NY" (Cress).
- A. velox** (Cress.). Johnstown, Sep (NYS); Norton's Landing, Cayuga L., Je, *SmHH* (Martin&Cress-CU); Ithaca, Jl (Martin-CU); Poughkeepsie, May (NYS); West Farms, *Angus* (Martin-AM); **LI**: Brooklyn (Martin-AM).
- A. versabilis** (Cress.). "NY" (paratype-US); Ithaca, Je (Martin-CU); Mud Cr., Je, *MacG&Bdy* (Martin-CU).
- A. vesus** (Prov.). New Russia, Aug, *Bdy* (Martin-CU); Axton, Je *M&H* (Martin-CU); Cranberry L., Aug, *Htly* (Cush-NYS Col. For.); Norton's Landing, Cayuga L., May-Je, *SmHH* (Martin-CU); Ithaca, Je (Martin-CU).
- A. vinnulus** (Cress.). Ithaca, May-Oct (Martin-CU); Katonah (Martin-AM); New Baltimore, Nyack, West Farms (Martin-AM); **LI**: Flatbush (Martin-AM).
- A. viola** (Cress.). Saranac Inn, Jl (NYS); **LI** (Vier-US).
- A. vitalis** (Cress.). Ithaca, Sep (NYS); **LI** (Vier).
- A. vittifrons** (Cress.). **LI** (Cush-US).
- A. vivax** (Cress.). Ithaca, Jl (Martin-CU).
- A. volens** (Cress.). "NY" (Cress).
- A. volesus** (Cress.). Axton, Je, *M&H* (Martin-CU).



**A. w-album** (Cress.). Mt. Whiteface, 3800 ft., *Ald* (Cush-US); Norton's Landing, Cayuga L., May, *SmHH* (Martin&Cress-CU); Ithaca, Je (Martin-CU); McLean, Aug 24-Sep 3, *Sib* (Bdy-CU); Albany, Je, Karner, Jl, *Yg* (NYS); Bear Mt., Jl (Cush-Schott); Poughkeepsie, Je, *Yg* (NYS); Nyack (AM); SI, Je (Vier, Ashm-Ds). **LI** (Ashm-US).

**A. wilsoni** (Cress.). Poughkeepsie, Jl, *Yg* (NYS); Rhinebeck, Jl, Cy (Martin-CU); West Farms, *Angus* (Martin-US).

**EURYLABUS** Wesmael

**E. agilis** Cress. "NY" (Cress).

**PLATYLABUS** Wesmael

**P. thoracicus** (Cress.). "NY" (Cress).

**HOPLISMENUS** Gravenhorst

**H. morulus** (Say). Manlius, Aug, *SmHH* (Cress-CU); Ithaca, Jl-Aug (CU); SI, Ds (Ashm-Ds). Hosts: *Aglaia antiopa* L. and *Polygonia interrogationis* Fab.

Tribe **PHAEAGENINI**

**HERPESTOMUS** Wesmael

**H. pyriformis** (Prov.). "NY" (Cress).

**COLPOGNATHUS** Wesmael

**C. helvus** (Cress.). Manlius, Aug, *SmHH* (Cress-CU); Barneveld, Ap, *Wolcott* (Cush-US); **LI** (Ashm-US).

**CENTETERUS** Wesmael

**C. tuberculifrons** (Prov.). **LI** (Ashm).

**EPARCES** Foerster

**E. quadriceps** (Cress.). Ithaca, Jl, *Yuasa*, Spring Lake, Jl (Bdy-CU); McLean, Sep 19, 1924, *Sib* (Bdy-CU).

**PHAEOGENES** Wesmael

**P. fungor** (Cress.). Ithaca, *Chitt* (Cush-US); **LI** (Ashm-US).

**P. gelechiae** Ashm. Ithaca, *Lciby* (Cush-US). Host: the goldenrod gall-maker, *Gnorimoschema gallaesolidaginis* Rly.

**P. hebe** (Cress.). NY (Cress); **LI** (Ashm).

**P. hebrus** (Cress.). Ithaca, Je-Jl (Bdy-CU); McLean, Ap 17, 1925 (Cush-CU).

**P. mellinus** (Prov.). Ithaca (Bdy).

**P. pimploides** Bdy. Ithaca, Jl 12 (type-CU).

**P. vincibilis** (Cress.). Norton's Landing, Cayuga L., Je 13, 1872 (Cress-CU).

SUBFAMILY CRYPTINAE<sup>147</sup>

## Tribe STILPNINI

## MESOLEPTUS Grav.

(Exolytus Holmberg and auctt.)

**M. aciculatus** (Davis). "NY" (GCDavis).**M. glaucus** (Davis). "NY" (GCDavis).**M. ithacae** (Ashm.). Ithaca (type-US).

## ATRACTODES Gravenhorst

**A. compressus** (Cress.). "NY" (Ashm).**A. sepedontis** Ashm. Saranac Inn, Aug, 1900 (type-US).

## STILPNUS Gravenhorst

**S. americanus** Cress. **SI** (Vier).

## Tribe PHYGADEUONINI

## THYSIOTORUS Foerster

**T. smithi** Cush. McLean, Aug 18-Sep 16, *SRobinson* (Cush-US); Hamden, Je 30, 1924 (Cush-US). A secondary parasite of the ophionine wasp, *Hyposoter geometrae* (Ashm).

## GLYPHICNEMIS Foerster

**G. crassipes** (Prov.). Newport, Jl, *Yg* (NYS); Ithaca, Je (Cush-US).

## STYLOCRYPTUS Thomson

**S. inflatus** (Prov.). McLean, Aug 18, 1925, *SRobinson* (Cush-CU).**S. maculatus** (Prov.). Old Forge, Jl, *Yg* (NYS).**S. mucronatus** (Prov.). "NY" (Ashm).**S. pubescens** (Prov.). McLean, Aug 1, 1925, *SRobinson* (Cush-CU).**S. subclavatus** (Say) (*Phygadeuon rotundiceps* Prov.). Nassau, Je (NYS).**S. vulgaris** (Cress.). **LI** (Ashm-US).

## PEZOPORUS Foerster

**P. tenthredinarum** Roh. Geneva (type-US). On *Profenusa collaris* (MacG.) (Tenthredinidae).

## APTESIS Foerster

**A. pterygia** Brad. Ithaca, Je, *Yuasa* (Bdy-CU); Taughannock, Jl, 1925, *Bdy& Guerlac* (Cush-CU).<sup>147</sup> If the Erlangen List is accepted, this subfamily should be called *Gelinae*, from *Gelis* Thunberg, the next oldest name in the subfamily (Cush), or *Itamopleginae*, from *Itamoplex*, replacing the homonym *Cryptus* Fab. (Bdy).

**PLECTOCRYPTUS** Thomson

- P. contiguus** (Cress.). Oswego, Je, Aug (Cush-US).  
**P. major** (Cress.). Poughkeepsie, Je, Yg (NYS).

**PHYGADEUON** Gravenhorst

(Subgenus **PHYGADEUON** Gravenhorst)

- P. brevicornis** (Prov.). Beaver Cr., McLean, Sep 14, 1924, Sib (Cush-CU).  
**P. orbitalis** (Prov.). McLean, Sep 17, 1924, Sib (Cush-CU).  
**P. subfuscus** Cress. **LI** (Ashm).

(Subgenus **STIBEUTES** Foerster)

- P. yuasai** Bdy. Ithaca, Jl, Yuasa (type-CU).

**POLYTRIBAX** Foerster

- P. pallescens** Vier. Ithaca, Chitt (Cush-US); McLean, Sep 16, 1924, Sib (Cush-CU).

Tribe **HEMITELINI**

**ACROLYTA** Foerster

- A. smerintheta** Ashm. Ithaca, Sep 13 (Ashm-CU), from sphinx larvae.

**ISDROMAS** Foerster

- I. aletiae** (Ashm.). Ithaca (Ashm-CU). On Apanteles.  
**I. bucculatricis** (Ashm.). Ithaca (Ashm-US).

**ASTOMASPIS** Foerster

- A. nanus** (Grav.) (*fulvipes* [Grav.]). Rye, May-Sep, Bird. Bird says there seem to be two broods. A parasite on many species of Apanteles.

**HEMITELES** Gravenhorst

- H. humeralis** Prov. **LI**: Flatbush, Zab (AM).  
**H. ruficoxis** Prov. McLean, Aug 26, 1925 *SRobinson* (Cush-CU).  
**H. sessilis** Prov. Albany, May, 1895 (NYS).  
**H. tenellus** (Say) (*melitiae* Ashm., *utilis* Nort., *periliti* Ashm.). Genoa, Nov (Ashm-CU); Ithaca, Jl (Bdy, Ashm-CU); Corinth (Felt); Rye, May, Bird (CU); **LI**: Flatbush, Zab (AM). A secondary parasite attacking many species of primary parasites.

**AENOPLEX** Foerster

- A. rubricornis** (Ashm.). **LI** (Ashm).

## CHRYSOPOCTONUS Cushman

(All the species of this genus are parasitic within the cocoons of Chrysopa.)

- C. atriceps** (Ashm.). Ithaca, *Chitt* (Cush-US).  
**C. rileyi** (Ashm.). Cranberry L., Aug, *Htly* (Cush-NYS Col. For.); Ithaca (Cush-US).

## Tribe GELINI

(*Pezomachini* auctt.)

## GELIS Thunberg

(*Pezomachus* Gravenhorst)

(The species of this genus are either secondary parasites or parasitic within the egg cocoons of spiders.)

- G. bucculatricis** (Ashm.). Chapel Pond, Je, *Cy* (Cush-US); Artist's Br., Jan, *Leon* (Cush-US); McLean, Sep 16, 1924, *Sib* (Mues-CU).  
**G. dimidiatus** (Cress.). Ithaca, Mar, May (Ashm-CU), from a spider's egg-cocoon.  
**G. dispar** (Strickl.). Ithaca, Sep 11, 1925, *Babiy* (Cush-CU).  
**G. flavocinctus** (Ashm.). Ithaca (Strickland).  
**G. meabilis** (Cress.). **SI** (Ashm).  
**G. microplitidis** Gahan. Rye, May-Sep, *Bird* (type-US), from *Microplitis gortynae* Rly.  
**G. ottawaensis** (Harr.). Penn Yan, Aug 2, 1925, *Cy* (Cush-CU).  
**G. thripites** (Taylor). "NY" (Taylor).  
**G. uniformis** (D.T.). Ithaca, Nov 19, 1925, *Cy* (Cush-CU), found ovipositing on spider cocoon.  
**G. urbanus** (Brues). Taughannock, Jl, 1925, *Bdy*, *Guerlac* (Cush-CU); Ithaca, Mar 7 (Cush-CU); McLean, Ap, 1917, *Babiy* (Cush-CU).

Tribe CRYPTINI<sup>148</sup>

(Including *Mesostenini*)

## ACRORICNUS Ratzeburg

- A. junceus** (Cress.). Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); McLean, Aug 30, 1924, *Sib* (Bdy-CU); **SI** (Ds); **LI**: Fishers I. (AM). Parasitic in nests of *Odynerus*.

## SPILOCRYPTUS Thomson

- S. atricollaris** (Walsh). Norton's Landing, Cayuga L., Jl, *SmHH* (Cress-CU); McLean, Jl 25-Sep 12, *SRobinson*, *Sib* (Cush-CU).  
**S. canadensis** (Prov.). McLean, Aug 31, 1925, *SRobinson* (Cush-CU).  
**S. extrematis** (Cress.). Albany, Je (NYS); **LI**: Flatbush, *Zab* (AM), Je (US); Jamaica, Je (US). Host: *Samia cecropia*.  
**S. nunciu**s (Say). McLean, Aug 23-30, *SRobinson*, *Sib* (Cush-CU); Albany, Jl (NYS); Nyack, *Zab* (AM).  
**S. polychrosidis** Cush. Ithaca, *Sling* (Cush-US). Host: grape berry moth.

<sup>148</sup> If the Erlangen List is accepted, this tribe should be known as the *Mesostenini*, from the next oldest name, *Mesostenus* Grav. (Cush), or *Itamoplegini*, from *Itamoplex* Foerster, replacing the homonym *Cryptus* Fab. (Bdy).

COMPSOCRYPTUS Ashmead

**C. retentor** (Brullé). **SI**, Sep (Ashm-Ds).

MEGAPLECTES Förster

**M. blakei** (Cress.). McLean, Je 30, 1921 (Bdy-CU). This is undoubtedly identical with the European *monticola* Grav. I find no distinction between the McLean and European specimens. (Bdy.)

CRYPTUS Fabricius

(*Itamoplex* Foerster)

**C. altoni** D.T. Cranberry L., Je, *Htly* (Cush-US); Coeymans (NYS).

**C. persimilis** Cress. Oswego, May-Jl, Stony I., Jl, **LI** (Cush-US).

**C. vinctus** (Say) (*americanus* Cress.). Old Forge, Je (NYS); Norton's Landing, Cayuga L., May-Je, *SmHH* (Cress-CU); Stony I., Jl (Cush-US); **LI**: Flatbush, *Zab* (AM, US).

CHROMOCRYPTUS Ashmead

**C. planosae** (Fitch). "NY" (type-US), (Cush-US). The type was bred from a cocoon of *Tolyte laricis* Fitch, the other specimen from *T. vellida* Stoll. (Lasiocampidae).

IDIOLISPA Foerster

**I. limata** (Cress.). Oswego, Je (US); Manlius, Jl, Norton's Landing, Cayuga L., May-Je, *SmHH* (Cress-CU); **LI**: (US); Flatbush, *Zab* (AM, US).

TRYCHOSIS Foerster

**T. rufoannulata** (Prov.). Oswego, May (Cush-US).

**T. similis** (Cress.). Ft. Montgomery, Je (Cush-Schott); **LI** Vier-US).

HOPLOCRYPTUS Thomson

**H. apicatus** (Prov.). Oswego, Jl-Aug (Cush-US).

**H. incertulus** Cush. **LI** (Vier-US).

CRYPTOIDEUS Ashmead

**C. agrili** (Vier.). **LI**: Huntington, Ap (Cush-Schott). Host: *Agrilus vittaticollis* Rand.

ECHTHRUS Gravenhorst

**E. abdominalis** Cress. Cranberry L., *A. Gottlieb* (Cush-US).

CHAERETYMMA Foerster

**C. velox** (Cress.). "NY" (type-ANSP).



## CRYPTUOPSIS Ashmead

**C. candidus** (Cress.). **LI**: Orient, *Sep* (Cush-Schott).

**C. fortis** (Cress.). "NY", *Comstock* (type-ANSP).

## LISTROGNATHUS Tschek

**L. albomaculatus** (Cress.). Manlius, Aug 2, 1872, *SmHH* (Cress-CU); "NY" (Vier-US).

## POLYAENUS Cresson

**P. spinarius** (Brullé). **LI** (Cush-US).

## MESOSTENUS Gravenhorst

**M. erythrogaster** Ashm. Oswego, Je (Cush-US); Ithaca, *Chitt* (Cush-US).

**M. gracilis** Cress. Ithaca, *Chitt* (Cush-US).

**M. thoracicus** Cress. Manlius, Sep, Norton's Landing, Cayuga L., May-Je, *SmIII* (Cress-CU); Ithaca, Je (Ashm-CU); Poughkeepsie, Je, *Yg* (NYS).

## POLISTIPHAGA Cushman

**P. arvalis** (Cress.). Nyack, *Zab* (AM); **LI** (US). Host: *Polistes*.

SUBFAMILY ICHNEUMONINAE<sup>149</sup>

(*Pimplinae* auctt.)

## Tribe LISSONOTINI

(The members of this tribe are very largely parasitic on lepidopterous larvae, although a few are recorded as reared from sawfly larvae.)

## EXETASTES Gravenhorst

**E. albitarsis** Prov. Cranberry L., *Jl*, *Htly* (Cush-US).

**E. fascipennis** Cress. Manlius, Sep, *SmHH* (Cress-CU); Nyack, *Zab* (Cush-US); **SI**, Oct (Ashm-Ds).

**E. obscurus** Cress. Nyack, *Zab* (AM).

**E. suaveolens** Walsh. Saranac Inn, *Yg* (NYS); ?Manlius, *SmHH* (Cress-CU); Oswego, Aug (Ashm-US); Ithaca, *Jl*, *EHSargent* (Ashm-CU); McLean, *Jl* 20-Aug 24, *Sib* (Bdy-CU); L. George, *Zab* (AM); Ft. Montgomery, Aug, *Schott* (AM); **LI**, Aug (Ashm-US).

## ARENETRA Holmgren

**A. nigrita** Cress. Caroline, Ap (Cush-CU); Nassau, May (NYS); **SI** (Ashm-Ds-US).

**A. ventralis** Cress. "NY" (Cress).

<sup>149</sup> Holarctic tribes of the ichneumon-flies of the subfamily Ichneumoninae (*Pimplinae*). Rv Robert A. Cushman and S. A. Rohwer. Proc. U. S. Nat. Mus., 1920, 57:379-396.

**MENISCUS** Schiødte

- M. agilis** (Cress.). Manlius, Aug, *SmHH* (Cress-CU); Waterville (Cush-US).  
**M. scutellaris** (Cress.). Adirondacks, Jl, Aug (Cush-CU); Essex Co, Jl (NYS); Ithaca, Jl (Cush-CU). Recorded as a parasite of *Gelechia pseudacaciella* Chamb.  
**M. superbus** (Prov.). Oswego, May (Cush-US); Rock City, Je (Cush-CU); Caroline to Harford, Je, *MacG&Bdy* (Cush-CU); McLean Bogs, Ithaca, May-Je (Cush-CU).

**LISSONOTA** Gravenhorst

(*Lampronota* Cresson not Curtis)

(Subgenus **LISSONOTA** Gravenhorst)

- L. americana** (Cress.). Essex Co, Aug (NYS); Potsdam, Albion (Bdy-CU); Cranberry L., Aug, *Spooner* (Cush-NYS); Middletown, Jl, *Spooner* (Cush-CU); Manlius, Sep, *SmHH* (Cress); L. Placid, Aug (Cush-US); Thousand Isls., Sep (Cush-CU); Rochester, Aug, *Summers* (Cush-CU); Oswego, Sep (Vier); Otto, Sep, *Comstock* (Cush-CU); Delhaven, Aug (Cush-CU); Spencer Summit, Aug, *Comstock* (Maidl-CU); Ithaca, May-Sep (Cush-CU); Spring Lake, Jl, *Bdy* (Cush-CU); Freeville, Aug (Cush-CU); McLean, Jl 18-Aug 1, *SRobinson* (Bdy-CU); **LI**: Riverhead, Sep (Cush-CU). Very common, probably everywhere in the State.  
**L. angusta** (Davis). Ithaca, Ap (Cush-US, CU).  
**L. brunnea** Cress. Rye, *Bird* (Cush-US).  
**L. cressonii** Vier. (*occidentalis* Cress.). Manlius, Aug, *SmHH* (Cress-CU); Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); Spring Lake, Jl (Cush-CU); Ithaca, Jl (Cush-CU); **LI**: Jamaica (Roh-US), on *Podosesia syringae* Harr. (Aegeriidae).  
**L. exilis** (Cress.). New Russia, Aug, *Bdy* (Cush-CU); North Cr., Jl, *Fbs* (Cush-US); Axton, Je, *M&H* (Ashm-CU); Rochester Jct., Jl, *Leon* (Cush-CU); Stony L., Jl (US); Ithaca, Sep (Maidl-CU).  
**L. frigida** (Cress.). Old Forge (NYS); Watertown, *Lint* (Cress-NYS); Ithaca; Nassau, Jl-Sep (NYS); Manlius, Jl-Sep, *SmHH* (Cress-CU); Middletown, Jl, *Spooner* (Cush-CU). Recorded as a parasite of *Crambus vulgivagellus* Clem.; specimens from this host are also in the U. S. Nat. Mus.  
**L. humeralis** (Prov.). Oswego, Jl (Roh-US).  
**L. jocosa** (Cress.). Portageville, Je (Cush-CU); Norton's Landing, Cayuga L., Je, *SmHH* (Cush-CU); Ithaca, McLean, Coy Glen, May-Jl (Cush-CU, US).  
**L. laevigata** (Cress.). McLean, Sep 12-17, *Sib* (Cush, Bdy-CU).  
**L. parva** (Cress.). Oswego, Ap (Cush-US); Ithaca, from leaf-miner, Apr-May (Ashm, Cush-CU, US); McLean, Aug 20-Sep 3, *Sib*, *SRobinson* (Bdy-CU); **LI**: Orient Pt., Ap (Cush-NYS).  
**L. philipi** Vier. Ithaca, Aug (Cush-CU, US).  
**L. pleuralis** (Cress.). Potsdam, Jl (Cush-CU); Oswego, Sep (Cush-US); Manlius, Sep, *SmHH* (Cress-CU); Ithaca, Je-Aug (Cush-CU, US). Recorded as a parasite of *Eulia velutinana* Wlk. (Tortricidae).  
**L. punctata** (Cress.) (*albifacies* [Prov.]♂). Potsdam (Cush-CU, US); Utica, *Pergande* (Cush-US); N. Fair Haven, Sep (Cush-CU); Albion (Cush-US); Manlius, Sep, *SmHH* (Cress-CU); Oswego, Sep (Vier-US); Cattaraugus, Sep (Cush-CU); Ithaca, Ap-Sep (Cush-CU); Freeville, Sep (Maidl-CU).

- L. rubrica** (Cress.). Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); Spring Lake, Jl (Cush-US); Spring Cr., Jl, *Fbs* (Cush-US); Ithaca, Aug, *Foster* (Cush-CU); Middletown, Jl, *Spooner* (Cush-CU); **LI** (Vier-US).
- L. rufipes** (Cress.) (*tegularis* [Cress.], male). Manlius, Aug, Sep, *SmHH* (Cress-CU); Utica, *Pergande* (Cush-US); N. Fair Haven, Sep, *Bdy* (Cush-CU); Otto, Sep, *Comstock* (Cush-CU); Pearl Pt., Aug (Cush-CU).
- L. varia** (Cress.). Potsdam (Cush-CU); Adirondacks, Aug (Cush-CU); L. Placid, Aug (Roh-US); Thousand Isls., Sep (Cush-CU); Manlius, Sep, *SmHH* (Cress-CU); Otto, *Comst* (Cush-CU); Varna, Sep (Cush-CU); Ithaca, Jl-Sep (Cush-CU, US); McLean, Sep 1, *SRobinson* (Bdy-CU), Sep 24, *Sib* (Cush-CU).

(Subgenus **ASPHRAGIS** Foerster)

- L. mirabilis** (Cress.). Cranberry L., Jl, *Htly* (Cush-SyracuseU); McLean, Aug 7, 1925, *SRobinson* (Bdy-CU). Specimens in the U.S. Nat. Mus. were reared from *Recurvaria robiniella* Fitch and *Gelechia trialbamaculella* Chamb. (both Gelechiidae).

**SYZEUCTUS** Foerster

- S. elegans** (Cress.). Ithaca, Jl, *Yuasa* (Bdy, Cush-CU). Specimens in the U.S. Nat. Mus. are said to have been reared from *Archips fervidana* Clem. (Tortricidae) and *Psilocorsis* sp. (Oecophoridae).

**CYLLOCERIA** Schiødte

- C. occidentalis** Cress. Axton, Jl, *M&H* (Cush-CU, US); Keene Val., Aug (Cush-US); Rock City, Je (Cush-CU, US); Ithaca, May, Jl (Cush-CU); Coy Glen, Taughannock, Jl, Sep (Cush-US); McLean, May-Sep 24 (Cush, Bdy-CU, US).

Tribe **GLYPTINI**

(The members of this tribe are parasitic on the larvae of Lepidoptera.)

**GLYPTA** Gravenhorst

- G. animosa** Cress. "NY" (Cress). Recorded as a parasite of *Eucosma scudderiana* Clem. (Tortricidae).
- G. borealis** Cress. Johnstown, Aug (NYS).
- G. canadensis** Cress. Oswego, Je (Cush-US); McLean, Aug 31, *Sib* (Cush-US).
- G. erratica** Cress. Cranberry L., Jl, *Htly* (Cush-N.Y.S. Col. For.); Axton, Je, *M&H* (Cush-CU); Peru, Je (Cush-CU); Ithaca, Je-Sep (Cush-CU); Mud Cr., Je (Cush-CU); Caroline to Harford, Je, *MacG&Bdy* (Cush-CU); Karner, Nassau, Albany, May, Jl, *Yg* (NYS). Parasite on *Grapta comma* Harris.
- G. inversa** Cress. Ithaca, Aug (Cush-CU).
- G. phoxopteridis** Weed. McLean, Aug 31, 1925, *SRobinson* (Bdy-CU). Parasite of the strawberry leaf-roller, *Ancylics comptana* Froelich.
- G. pulchripes** Cress. Ithaca, Je-Sep (Cush-CU).
- G. rufiscutellaris** Cress. New Russia, Aug, *Bdy* (Cush-CU); Rochester Jct., Jl, *Leon* (Cush-CU); Ithaca, Ap-Jl (Cush-CU); McLean, Je (Cush-CU); Cohoes, Je (Cush-US); **LI**: Farmingdale, Je, *Morrow* (Cush-CU). A native parasite of the introduced oriental peach moth, *Laspeyresia molesta* Busck.

- G. rufofasciata** Cress. Spring Lake, JI (Cush-US); **LI**: Farmingdale, JI, *Morrow* (Cush-CU).
- G. simplicipes** Cress. Rochester Jct., Je, *Leon* (Cush-CU); Ithaca, JI-Aug (Cush-CU); Nassau, Ap (NYS); Albany, Feb (NYS). Recorded as a parasite of *Peronea minuta* Rob. and its variety *cinderella* Rly., *Archips rosaceana* Harr. (all Tortricidae), and *Heterocampa bilineata* Pack. (Notodontidae). Specimens in the U.S. Nat. Mus. are from the first of the above-named hosts, *Cymolomia footiana* Fern. (Tortricidae), and *Zotheca tranquilla* Grt. (Noctuidae).
- G. varipes** Cress. Ithaca, May (Cush-CU). Specimens in the U.S. Nat. Mus. are from the lesser codling worm, *Laspeyresia prunivora* Walsh.
- G. vulgaris** Cress. Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); Ithaca, May-Aug (Cush-CU). Specimens in the U.S. Nat. Mus. are recorded as reared from *Trichotaphe juncidella* Clem. (Gelechiidae), *Eulia velutinana* Wlk., *Olethreutes interruptolineana* Fern. (Tortricidae), the oriental peach moth (*Laspeyresia molesta* Busck), and *Cymolomia punctana* Walsh.

Tribe **PHYTODIETINI** <sup>150</sup>

**PHYTODIETUS** Gravenhorst

- P. annulatus** (Prov.). Oswego (Roh-US); Ithaca, Mar-May (Roh, Cush-CU, US); Watkins (Roh); Mix Cr. Val., Je (Cush-CU). Specimens in the U.S. Nat. Mus. were reared from *Archips argyrospila* Wlk. and *Ancylis fragariae* Walsh & Rly. (both Tortricidae).
- P. burgessi** (Cress.). Rock City, Je (Cush-CU); Ithaca, May, Aug (Maidl-CU, Roh-US); McLean Bogs, May, JI 20, *Sib* (Cush-CU). Specimens in the U.S. Nat. Mus. were reared from *Exartema myricanum*, *Peronea logiana* Schiff., *Ancylis platana* Clem. (Tortricidae), and *Acrobasis betulella* Hulst (Pyralidae).
- P. vulgaris** Cress. Manlius, Sep, *SmHH* (Cress-CU); Portageville, Je (Cush-CU); Ithaca, Je-JI (Cush-CU), from *Archips argyrospila* Wlk. (Tortricidae); McLean, Aug 22, *Sib* (Bdy-CU); Albany, Oct (NYS); **LI**: Riverhead, Sep (Cush-CU). A specimen in the U.S. Nat. Mus. was reared from *Peronea minuta* Rob. (Tortricidae).

Tribe **THERONIINI** <sup>151</sup>

(The members of this tribe are parasitic in the pupae of Lepidoptera, sometimes, at least, as secondary parasites.)

**THERONIA** Holmgren

- T. fulvescens** (Cress.). Ithaca, Aug (Mues-CU); Manlius, Sep, *SmHH* (Cress-CU); Pike, JI (NYS); Glens Falls (Cush-US); Albany, Aug (NYS); Slingerlands (Felt-NYS); Dutchess Co., Sep, *Dyar* (Cush-US). Specimens in the U.S. Nat. Mus. were reared from the pierid butterfly, *Neophasia menapia* Felder, the spruce budworm, *Hormoloe fumiferana* Clem., the white-marked tussock, *Hemerocampa leucostigma* S. & A., *Oreta rosea* Wlk. (Drepanidae), and *Malacosoma* sp. Also recorded from the tent caterpillar *Malacosoma americana* Harris, and the gipsy moth, *Porthetria dispar* L. Specimens in NYS were bred from the forest tent caterpillar, *Malacosoma disstria* Hbn.

<sup>150</sup> See work cited under Rhyssini, page 938.

<sup>151</sup> The North American ichneumon-flies of the tribes Lycorini, Polysphinctini, and Theroniini. By Robert A. Cushman. Proc. U. S. Nat. Mus., 1920, 58:7-480.

- T. melanocephala** (Brullé). New Russia, Aug, *Bdy* (Mues-CU); Cranberry L., Aug, *Htly* (Cush-NYS Col. For.); Manlius, Jl-Sep, *SmHH* (Cress-CU); Rock City, Je (Mues-CU); Norton's Landing, Cayuga L., May-Je, *SmHH* (Cress-CU); Ithaca, May-Jl (Mues, Cush-CU); McLean, Aug 20, Sep 4, *Sib* (Bdy-CU); Nyack (?Brues-AM); Ft. Montgomery, Sep (Cush-Schott); **LI**: Flatbush (?Brues-AM). Recorded as reared from the gipsy moth, *Porthetria dispar* L., the silver-spotted skipper, *Epargyreus tityrus* Fab., the spotted tussock caterpillar, *Halisidota maculata* Harr., and the hickory tussock caterpillar, *H. caryae* Harris.

### Tribe EPHIALTINI<sup>152</sup>

(*Pimplini* auctt.)

(The species of this tribe are primary parasites within the pupae of Lepidoptera.)

#### EPHIALTES Schrank

(*Pimpla* auctt., in part)

(Subgenus EPHIALTES Schrank)

- E. aequalis** (Prov.). Newport, Je, *Yg* (NYS); Cranberry L., Je, Aug, *Htly* (Cush-NYS Col. For.); Labrador L., May (Cush-CU); Manlius, Jl-Sep, *SmHH* (Cress-CU); N. Fair Haven, Sep (Baird-CU); Oswego, Aug (Cush-US); Rochester Jct., Je, *Leon* (Baird-CU); Rock City, Je (Cush-US); Norton's Landing, Cayuga L., May, Je, *SmHH* (Cress-CU); Ithaca, Sep (Cush, Bdy, Baird-US, CU); Taughannock, May (Baird & Bdy-CU); Ringwood, Jl (Cush-US); Caroline, Je (Baird-CU); McLean Bogs, May, Sep 3 (Cush, Bdy-US, CU); Spring Lake, Jl, *Bdy* (Cush-US); Middletown, Jl, *Spooner* (Cush-US); Trenton Falls, Je (Cush-NYS); Albany, Je, *Yg* (NYS); Poughkeepsie, Je (Cush-NYS); **SI**, *Bird* (Ashm-Ds). A common parasite of the codling moth (*Carpocapsa pomonella* L.), and recorded from a great variety of other hosts among both macrolepidoptera and microlepidoptera.
- E. aquilonia** (Cress.). Ithaca, Jl (Cush-CU); Albany, Jl (Cush-US).
- E. pedalis** (Cress.). New Russia, Aug, *Bdy* (Baird-CU); Potsdam, Jl (Baird-CU); Manlius, Sep, *SmHH* (Cress-CU); Oswego, Sep (Cush-US); Utica, *Pergande* (Cush-US); Honeoye Falls (Cush-CU); Otto, Jl, *Comstock* (Baird-CU); Ithaca, Ap-Sep (Cush, Bdy-US, CU); McLean Bogs, Spring Lake, Taughannock, Je-Aug (Baird, Bdy-CU); Glens Falls, Albany (NYS); New Baltimore, Zab (?Brues-AM); **SI** (Ashm-Ds); **LI**: Flatbush, *Zab* (?Brues-AM); Fishers I. (?Brues-AM); Melville, May (Cush-Schott); Riverhead, Sep (Baird-CU). A common parasite of the tent caterpillars (*Malacosoma* spp.), the gipsy moth (*Porthetria dispar* L.), the brown-tailed moth (*Euproctis chrysorrhoea* L.), and many other Lepidoptera.
- E. tenuicornis** (Cress.). Newport, 1200 ft., May-Je (Cush-NYS); Cranberry L., Je, Aug, *Htly* (Cush-NYS Col. For.); Potsdam, Jl (Baird-CU); Axton, Je, *M&H* (Ashm-CU); Utica, *Pergande* (Cush-US); Oswego, Jl (Cush-US); N. Fair Haven, Sep (Baird-CU); Stony I., Jl (Cush-US); Olean, Sep (Baird-CU); Norton's Landing, Cayuga L., Jl, *SmHH* (Cress-CU); Mud Cr., Je, *MacG&Bdy* (Bdy-CU); McLean Bogs, May-Sep 16 (Baird, Bdy, Maidl-CU); Seneca Jct., Je (Baird-CU); Spring Lake, Jl (Baird-CU);

<sup>152</sup> The North American ichneumon-flies of the tribe Ephialtini. By Robert A. Cushman. Proc. U. S. Nat. Mus., 1920, 58:327-362.



Ithaca, JI (Cush-NYS); Albany, Je, Sep (Cush-NYS). Recorded as a parasite of the gipsy moth (*Porthetria dispar* L.) and *Alcathoe caudata* Harr. (Aegeriidae).

(Subgenus **ITOPLECTIS** Foerster)

**E. conquisitor** (Say). Peru, Je, *M&E* (Baird, Gahan-CU); Rochester Jct., Je, *Leon* (Baird-CU); Waterville (Baird-CU); Manlius, Sep-Oct, *SmHH* (Cress-CU); N. Fair Haven, Sep (Baird-CU); Portageville, Je (Baird-CU); Rock City, Je (Baird-CU); Chipmunk Swamp, Je (Baird-CU); L. Keuka, Je, Cy (Baird-CU); Ithaca, May-Sep (Bdy-CU), from *Malacosoma americana ALLiu*; Malloryville, Je, *MacG* (Bdy-CU); Slaterville to Caroline, and Caroline to Harford, Je, *MacG* (Bdy-CU); Freeville, McLean, Spring L., JI (Baird-CU); Bainbridge, JI (Cush-NYS); Albany, Je, *Yg* (NYS); Slingerlands (Felt); **SI**: W. Brighton (*Lint*); **LI** (US). Throughout the State. Parasitic on pupae of many Lepidoptera. One of the most common of ichneumonids.

**E. leavitti** Cush. Richfield Sps., Oct 14, 1888, *Perg* (Cush-US).

**APECHTHIS** Foerster

**A. picticornis** (Cress.). Cranberry L., Aug, *Htly* (Cush-NYS Col. For.); Ithaca, *Yuasa* (Bdy-CU); McLean, Aug 20-31, *Sib*, *SRobinson* (Bdy-CU).

Tribe **POLYSPHINCTINI** <sup>153</sup>

(The species of this tribe are externally parasitic on spiders.)

**CLISTOPYGA** Gravenhorst

**C. canadensis** Prov. Oswego, Aug (Cush-US).

**POLYSPHINCTA** Gravenhorst

(Subgenus **POLYSPHINCTA** Gravenhorst)

**P. burgessi** Cress. Cranberry L., Aug, *Htly* (Cush-NYS Col. For.); Oswego, Je (Cush-US); Ithaca, Aug (CU).

**P. koebele**i How. Ithaca, JI (Maidl-CU); Ellis to Slaterville, Je, *MacG&Bdy* (Cush-CU). The type of this species was reared from a spider of the genus *Epeira* (*strix* or *sclopetaria*).

**P. slossonae** Davis. Cranberry L., Aug, *Htly* (Cush-NYS Col. For.); Chapel Pond, Je (Cush-NYS Col. For.).

**P. strigis** How. Oswego (Cush-US); Ithaca, Je (Cush-CU); McLean, Aug 26, *SRobinson* (Cush-CU); **LI**: Sea Cliff (How-US), type, on *Epeira strix*.

**P. texana** Cress. Ithaca, JI (Cush-US); McLean, Aug 24, 1925, *SRobinson* (Bdy-CU). Recorded as a parasite of *Steatoda borealis*.

(Subgenus **ZATYPOTA** Foerster)

**P. crosbyi** Cush. Oswego, JI (holotype-US); McLean, Nov, Cy (allotype, Cush-US).

?**P. granulosa** Davis. Ithaca, JI (Cush-CU).

**P. nigrita** Walsh. **SI** (Ashm).

**P. parva** (Cress.). Bolton (Cush-US).

<sup>153</sup> See work cited under Theroniini, page 935.

Tribe **LABENINI** <sup>155</sup>**LABENA** Cresson

(The species of this genus are parasitic on the larvae of beetles of the families Buprestidae and Cerambycidae.)

- L. apicalis** Cress. Ithaca, Je (NYS), bred from *Chrysobothris femorata* (Oliv.). Specimens in the U.S. Nat. Mus. are from *Saperda puncticollis* Say, *Stenosphenus notatus* (Oliv.), *Pseudibidion unicolor* (Rand), and *Agrilus* sp. (all Cerambycidae).
- L. confusa** Roh. Ithaca, Jl 31 (Cush-CU). Recorded by Rohwer as a parasite of *Thrinopyge alacris* Lec. (Buprestidae), and *Chion cinctus* (Drury) (Cerambycidae).
- L. grallator** (Say). Ithaca, Sep (NYS); **LI** (Vier). Recorded as parasite of *Chrysobothris femorata* (Oliv.) (Buprestidae) and *Chion cinctus* (Drury) (Cerambycidae).

**GROTEA** Cresson

- G. anguina** Cress. Indian Ladder, Jl (Cush-CU); Ithaca, Je (Cush-CU); Nyack, Zab (?Brues-AM); West Farms, New Baltimore (?Brues-AM).

Tribe **RHYSSINI** <sup>155</sup>**RHYSSA** Gravenhorst

(The species of this genus are parasitic on horn-tails of the genera *Xeris* and *Sirex*.)

- R. lineolata** (Kby.) (*albomaculata* Cress.). New Russia, Aug, Bdy (Cush-CU); Mt. Whiteface, 2000-4000 ft., Aug (Cush-CU); Erie Co, *Blackburn* (Roh); Ithaca, May-Sep (Cush-CU). Recorded by Rohwer as parasitic on *Xeris* sp.
- R. persuasoria** (L.). Saranac Inn, Jl (NYS); Gloversville, Sep (NYS); Oswego, Je (Roh-US); Port Byron, Je (Cush-CU); Castile, *EABradley* (Bdy); Ithaca, *Yuasa* (Bdy-CU). Recorded by Rohwer as parasitic on *Xeris* sp. and *Sirex* sp. Records associating this species with Coleoptera as hosts are probably erroneous.

**RHYSELLA** Rohwer

(The species of this genus are parasitic on wood wasps of the genus *Xiphydria*.)

- R. humida** (Say). Ithaca, May, Aug (Cush-CU); Ft. Montgomery, Sep (Cush-Schott). Recorded by Rohwer as reared from *Xiphydria attenuata* Norton, *X. abdominalis* Say, and *X. erythrogaster* Ashm.
- R. nitida** (Cress.). New Russia, Aug, Bdy (Cush-CU); Mt. Whiteface, 2000-4000 ft., Aug (Cush-CU); Castile, *EABradley* (Bdy); Ithaca, May-Aug (Cush-CU); Taughannock, Jl (Cush-CU); McLean, May-Aug (Cush-CU); Caroline to Harford, Je, *MacG&Bdy* (Cush-CU). A common parasite of the larva of *Xiphydria maculata* Say (Rohwer).

<sup>155</sup> The North American ichneumon-flies of the tribes Labenini, Rhyssini, Xoridini, Odontomerini, and Phytodietini. By S. A. Rohwer. Proc. U. S. Nat. Mus., 1920, 57:405-474.

MEGARHYSSA Ashmead

(The species of this genus are parasitic on horntails of the genus *Tremex*.)

- M. atrata** (Fab.). Axton, Je, *M&H* (Ashm-CU); Raquette R. (Lint); Ithaca, Je-Jl (CU); Spencer, Je (Cush-CU); Taughannock, May, *Bdy* (Cush-CU); Trenton Falls, *Leon, Fbs* (Cush-CU); Livingston (Clarkson); Albany, Je (Lint-NYS); Menands, Jl, *Mattimore* (Lint-NYS); **SI** (Ashm); **LI** (Roh-US). Common probably everywhere in the State.
- M. greeni** Vier. Cranberry L., Jl, *Htly* (Cush-NYS Col. For.); Ithaca, Je, Aug (Cush-CU); Ft. Montgomery, Je (Cush-Schott). Parasitic on larva of *Tremex columba* (L.).
- M. lunator** (Fab.). Wilmington, Aug, 1000-2000 ft. (Cush-CU); Rochester Jct., Je, *Leon* (Cush-CU); Castile, *EABradley* (Bdy); Portageville, Je (Cush-CU); Schuyler Co, Aug, *Burner* (Roh-US); Meridian, *Williams* (Lint-NYS); Taughannock, May (Cush-CU); Ithaca, May-Aug (Cush-CU); Elmira, Sep, *Diven* (Cush-CU); Albany, Sep (*Lint*); Loudonville (Felt); Livingston (Clarkson); Port Chester, Jl, *Sample* (Roh-US); **SI** (Ashm). Common probably everywhere in the State. Parasitic on larva of *Tremex columba* (L.).

Tribe ACOENITINI<sup>156</sup>

COLEOCENTRUS Gravenhorst

(Very little is known of the host relations of this genus, but the species are probably parasitic on the larvae of wood-boring Coleoptera.)

- C. harringtoni** Cush. Ithaca, Jl (Cush-CU); **LI**: Rockaway (AM).
- C. pettitii** Cress. Cranberry L., Je, *Htly* (Cush-NYS Col. For.).
- C. rufus** Prov. Johnstown, Ap, Poughkeepsie, Je, *Yg* (NYS).
- C. similis** Cush. Cranberry L., Je, *Gray* (Cush-CU); Buck I., Je, *Htly* (Cush-US); Ithaca, May-Je (Cush-CU); Ft. Montgomery, Je, *Schott* (Cush-CU).

AROTES Gravenhorst

- A. amoenus** Cress. Mt. Whiteface, 4872 ft., Jl, *Ald* (Cush-US); Cranberry L., Je, *Htly* (Cush-NYS Col. For.); Labrador L., Je (Cush-CU); Batavia, Je (Cush-CU); Ithaca, Je (Mues-CU); Caroline to Harford, Je, *MacG&Bdy* (Mues-CU); Trenton Falls, Je, *Leon&Fbs* (Cush-CU); Ft. Montgomery, Je, *Schott* (Cush-US); **LI**: E. Hampton, Je (Mues-CU); Gardiners I., Je (Schott).
- A. decorus** (Say). Albany, Aug (NYS); Poughkeepsie, Je (NYS); Bronx Pk. (Ashm). Recorded as a parasite of *Xylotrechus colonus* (Fab.) (Cerambycidae), and *Tomoxia bidentata* (Say) (Mordellidae).
- A. occipitalis** Cress. (*apicatus* Ds.). **LI**: Cold Sp. Harb., Jl (Cush-CU). Recorded as a parasite of *Ophistomis bicolor* (Swed.).
- A. vicinus** Cress. New Russia, Aug, *Bdy* (Mues-CU); Long L., Aug (NYS); Ithaca, Jl (NYS). Recorded as a parasite of *Strangalepta vittata* (Oliv.), *Brachyleptura rubrica* (Say), and *B. vagans* (Oliv.) (all Cerambycidae).

<sup>156</sup> The North American ichneumon-flies of the tribe Acoenitini. By Robert A. Cushman and S. A. Rohwer. Proc. U.S. Nat. Mus., 1920, 57: 503-523.

Tribe **XORIDINI** <sup>157</sup>

(The members of this tribe are parasitic on the larvae of wood-boring Coleoptera.)

**XORIDES** Latreille

- X. albopictus** (Cress.). Cranberry L., Je, Aug, *Htly* (Cush-NYS Col. For.); Poughkeepsie, May-Je, *Yg* (NYS). Recorded as parasitic on the cerambycid *Saperda discoidea* Fab.
- X. frigidus** (Cress.). Big Moose, Jl, *Yg* (NYS); Keene Val., Aug (CU).
- X. humeralis** (Say). Keene Val., Aug (Cush-CU); Ithaca, Je, Aug (Cush-CU); Utica, *Pergande* (Cush-US). Recorded as parasitic on the longicorn *Phymatodes varius* (Fab.).
- X. stigmapterus** (Say). New Russia, Aug, *Bdy* (Mues-CU); Cranberry L., Je, *Drk* (Cush); Wilmurt, Je, *Comstock* (Cush-CU); Spencer L., Je, *Rly&MacG* (Cush-CU); Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); Ithaca, Je (Cush-CU). Recorded as a parasite of the longicorn *Leptura proxima* Say.

**DEUTEROXORIDES** Viereck

- D. borealis** (Cress.). Malone, Je (Cush-CU). Recorded as a parasite of the longicorn beetles *Atimia dorsalis* Lec., *Anacomis lignea* (Fab.), and *Tetropium velutinum* Lec.
- D. caryae** (Harr.). Syracuse, *Blkm* (Cush-US). Recorded as a parasite of the longicorn borer *Saperda discoidea* Fab., and, according to Rohwer, probably confined to this host.
- D. vittifrons** (Cress.). Cranberry L., Jl, *Htly* (Cush-US); Johnstown, Aug (NYS); Norton's Landing, Cayuga L., Jl, *SmHH* (Cress-CU). Recorded as a parasite of the longicorn beetle *Urographis fasciata* (DeG.).

**POEMENIA** Holmgren

- P. albipes** (Cress.). Cranberry L., Aug, *Htly* (Cush-US); Oswego, Je (Roh-US); Honeoye Falls, Aug, *Leon* (Cush-CU); Ithaca, Je-Aug (Cush-CU, NYS).
- P. americana** (Cress.). Ithaca, Jl (Cush-CU). Recorded as a parasite of *Paratimia conicola* Fisher and *Laspeyresia toreuta* Grt.; according to Rohwer the latter record may be an error.

Tribe **ODONTOMERINI** <sup>157</sup>

(The members of this tribe are probably always parasitic on the larvae of wood-boring Coleoptera.)

**ODONTOMERUS** Gravenhorst

- O. abdominalis** Cress. Norton's Landing, Cayuga L., *SmHH* (Cress-CU); Ithaca, *Yuasa* (Bdy-CU).
- O. albotibialis** Bdy. Ithaca, Jl, *Yuasa* (Bdy-CU).
- O. atripes** Roh. Ithaca to Ellis, Je (Cush-CU); L. George, *Zab* (?Brues-AM); Utica, *Pergande* (Cush-US).
- O. bicolor** Cress. Elizabethtown, Jl, *Yg* (NYS); Big Moose, Aug, *Yg* (NYS).

<sup>157</sup> See work cited under Rhyssini, page 938.

- O. canadensis** Prov. Rock City, Je (Cush-CU); Ithaca, May, Je (Cush-CU); Freeville, Jl (Cush-CU); McLean, Aug 31, 1925, *SRobinson* (Bdy-CU); L. George, Jl, *Fisher* (Cush-US); Black Mt., L. George, Sep 4, *Leon* (Bdy-CU). Recorded by Rohwer as parasitic on *Dicerca divaricata* (Say), *D.* sp. (Buprestidae), *Leptura* sp. (Cerambycidae), and *Serropalpus* sp. (Melandryidae).
- O. dichrous** Roh. McLean Bogs, May, Sep 14, *Sib* (Cush, Bdy-CU).
- O. mellipes** (Say). Rock City, Ringwood (Bdy-CU); Ithaca, Jl-Sep (Cush-CU); McLean, Aug 8, *Sib* (Bdy-CU); Tioga Co (Bdy-CU); **SI** (Viereck); **LI**: Flatbush, Jl, *Zab* (Roh-US). Recorded as a parasite of *Parandra brunnea* (Fab.) (Cerambycidae).
- O. strangaliae** Roh. Oswego, Jl (Roh-US). The type was reared from *Ophistomis luteicornis* (Fab.) (Cerambycidae).
- O. vicinus** Cress. Ithaca, Je (Bdy-CU); McLean, May 31-Sep 21 (Cush, Bdy-CU).

### Tribe ICHNEUMONINI

(*Pimplini* auctt.)

#### ICHNEUMON Linnaeus

(*Ephialtes* auctt.)

(Subgenus ICHNEUMON Linnaeus)

(The species of this subgenus are usually, if not always, parasitic on wood-boring or twig-boring Coleoptera.)

- I. irritator** Fab. Rock City, Je (Cush-CU); Ithaca, May-Aug (Bdy, Cush-CU); Coy Glen, May (Cush-CU); McLean, May, Je 23, *Sib* (Cush, Bdy-CU); Albany, May (NYS); **LI**: W. Bergen, *Juelich* (Cress); Wyandanch, May, (Cush-Schott). Specimens in the U.S. Nat. Mus. were reared from the longicorn *Obrium rufulum* Gahan. Also recorded as a parasite of *Leiopus variegatus* (Hald.) (Cerambycidae), and *Cryptorhynchus lapathi* (Lec.) (Curculionidae).
- I. macer** (Cress.). New Russia, Aug, *Bdy* (Cush-CU).
- I. occidentalis** (Cress.). Cranberry L., Jl, *Hily* (Cush-NYS Col. For.); Ithaca, Jl (Cush-US); Johnstown, May (NYS); Albany, Jl (NYS).
- I. pusio** (Walsh). New Russia, Aug, *Bdy* (Cush-CU). A specimen in the U.S. Nat. Mus. is said to have been reared as a parasite of Xiphydria in maple, which, however, was infested also by a coleopterous larva.

(Subgenus CALLIEPHIALTES Ashmead)

(The species of this subgenus are parasitic on lepidopterous and coleopterous larvae living in twigs, weed stems, etc.)

- I. comstockii** (Cress.). Ithaca, *Comst* (holotype-US) from *Retinia comstockiana*, Aug (Cush-CU) from *Pinipestis zimmermani*; Port Chester, May (Cush-US). Specimens in the U.S. Nat. Mus. were reared as parasites of *Rhyacionia taxifoliella* Busck, *R. buoliana*, and *R. frustrana* Comst. (Tortricidae).
- I. grapholithae** (Cress.). Ithaca, Je (Cush-CU). Recorded as a parasite of *Laspeyresia caryana* Fitch (Tortricidae), *Acrobasis hebesella* Hulst (Pyralidae), and the sawfly *Euura salicis-nodus* Walsh.



- I. notandus** (Cress.). Ithaca, Ap-May (Baird-CU); West Farms, *Angus* (Cush-CU); **LI** (Cush-US). A common parasite of the goldenrod gall-maker *Gnorimoschema gallaesolidaginis* Rly. and other similar gall-making lepidopterous larvae. The U.S. Nat. Mus. has specimens from the above-named host and from *G. gallaeasteriella* Kell., *G. baccharisella* Busck, and *Walshia amorphella* Clem. (Lavernidae).

### SCAMBUS Hartig

(*Pimpla* auctt., in part)

(The species of this genus are parasitic on lepidopterous, and, rarely, coleopterous, larvae.)

(Subgenus **ISEROPUS** Foerster)

- S. coelebs** (Walsh). New Russia, Aug, *Bdy* (Baird-CU); Potsdam, Je (Baird-CU); Speculator, Aug (Cush-NYS); Batavia, Mar (Cush-CU); Manlius, Aug-Sep, *SmHH* (Cress-CU); Fredonia, Jl (Baird-CU); Spring Lake, Jl (Baird-CU); Ithaca, Mar-Jl (Baird, Maidl-CU); Enfield, Jl (Maidl-CU); Ringwood, Aug (Maidl-CU); Motts Corners, Aug (Baird-CU); Labrador L., May (Maidl-CU); Freeville, Jl (Baird-CU); Norton's Landing, Cayuga L., Jl, *SmHH* (Cress-CU); McLean, Aug 3-31, *SRobinson* (Bdy-CU); Slingerlands, Albany, Karner, Gloversville, Je-Aug (NYS); NYC, Sep, *Cy* (Baird-CU); **LI**: Flatbush, Sep, *Zab* (Cush-US); Melville, May (Cush-Schott). An abundant parasite of *Orgyia*, *Malacosoma*, *Thyridopteryx*, etc., its larvae feeding gregariously on prepupae of the host.

(Subgenus **EPIURUS** Foerster)

- S. alborictus** (Cress.) (*investatrix* Walsh). Adirondacks, Aug (Baird-CU); Cranberry L., Jl, *Htly* (Cush-NYS Col. For.); Ithaca, Je-Nov (Cush, Baird-CU); Spring Lake, Jl (Baird-CU); Albany, Je (Cush-NYS). Parasitic on leaf-rolling lepidopterous larvae such as the apple leaf-roller, *Archips argyrospila* Wlk. Specimens in the U.S. Nat. Mus. are from *Eulia pinitubana*, *Episimus argutus* Cl. (both Tortricidae), and *Zotheca tranquilla* Grt. (Noctuidae).
- S. indagator** (Cress.). Ithaca, Ap-Aug (Cush-CU, US); Spring Lake, Jl (Baird-CU); Van Cort. Pk., Jl (Baird-CU). Parasitic on larvae of many internally-feeding microlepidoptera. The U.S. Nat. Mus. has specimens reared from the grape berry moth (*Polychrosis viteana* Clem.), *Simaethis pariana* (Glyphipterygidae), a leaf-roller on box-elder, *Acrobasis indiginella* Zell., *Acrobasis caryella* (Pyralidae), *Dichomeris ligulella* Hbn. (Gelechiidae), the codling moth (*Carpocapsa pomonella* L.), *Colcophora* sp. on wild cherry, *Eulia pinitubana* (Tortricidae), and *Phycis juglandis* S. & A. (Pyralidae).
- S. nigrifrons** Vier. Albany, Jl, Aug (Cush-NYS). On the white-marked tussock caterpillar, *Hemerocampa leucostigma* S. & A.
- S. pterophori** (Ashm.) (*ptelas* auctt.). L. Pleasant, Je (NYS); Gloversville, Aug (NYS); Oswego, May (Cush-US, NYS); Buffalo, *EPV* (GCDavis); Rochester Jct., Jl, *Leon* (Baird-CU); Honeoye Falls, N. Fair Haven, Sep (Baird-CU); Clifton Sps., Aug, *Cy* (Baird-CU); Perry, Aug, *Emerson* (Cush-CU); Spring Lake, Jl (Baird-CU); Norton's Landing, Cayuga L., May-Je, *SmHH* (Cress-CU); Ithaca, Mar-Aug (Baird, Cush-CU, NYS); Mud Cr., Jl, *MacG&Bdy* (Baird-CU); McLean Bogs, May (Cush-CU);

Poughkeepsie, May (Cush-NYS); **LI** (Cush-US). Parasitic on larvae of stem-boring and stem-gall-making Lepidoptera and Coleoptera such as *Gnorimoschema gallaesolidaginis* (Rly.), *G. gallaeasteriella* Kell., the European corn-borer (*Pyrausta nubilalis* Hueb.), *Stagmatophora ceanothiella* Cosens, *Lophoptilus eloisella* Clem. (Lavernidae), *Eucosma scudderiana* Clem. (Tortricidae), and the weevil *Mononychus vulpeculus* (Fab.).

**S. tecumseh** Vier. McLean, Aug 26, 1925, *SRobinson* (Cush-CU).

### TROMATOBIA Foerster

(The species of this genus parasitize the egg cocoons of spiders.)

**T. rufopectus** (Cress.) (*scriptifrons* Cress.). Cranberry L., Je-Aug, *Htly* (Cush-NYS Col. For.); Ithaca, May-Aug (Bdy, Baird-CU); McLean Bogs, May (Baird-CU); Poughkeepsie, Je, *Yg* (NYS). A common parasite in the egg cocoons of the spiders of the genus *Argiope*. It was probably this species that Clarkson (Can. Ent., 1890, p. 122) recorded from NY under the name *Ichneumon araneorum* Ratz.

### ZAGLYPTUS Foerster

(The species of *Zaglyptus* are parasitic within the egg cocoons of spiders.)

**Z. incompletus** (Cress.). Saranac L., Olean, Ithaca, Spring Lake, Jl-Sep (Cush-CU); McLean, Aug 30, 1925, *SRobinson* (Cush-CU). In the U.S. Nat. Mus. there is a series of specimens from Dallas, Texas, reared from the egg cocoon of a spider.

### DELOMERISTA Foerster

(The species of this genus are parasitic within the cocoons of sawflies.)

**D. novita** (Cress.). Cranberry L., Je, *Htly* (Cush-US). There is no authentic published record of the hosts of this species. Such records as are published should be credited to one or another of the species of *Epiurus*.

### PERITHOUS Holmgren

(The species of *Perithous* are parasitic in the nests of solitary wasps.)

**P. pleuralis** Cress. Ithaca, Je-Aug (Cush-CU, NYS); Freeville, Jl (Cush-CU); Slaterville to Caroline, Je, *MacG&Bdy* (Cush-CU); Taughannock, May (Cush-CU); Albany, Sep (NYS); Nyack, Aug, *Zab* (Cush-US). Specimens in the U.S. Nat. Mus. were reared from the nests of the wasp *Pemphredon concolor* Say, while others were reared from a sassafras stem containing the nest of a bee or a wasp.

### SUBFAMILY TRYPHONINAE 159

With a few exceptions the members of the tribes Catoglyptini, Tryphonini, and Cteniscini are parasitic on the larvae of sawflies. The members of the other tribes show a wide diversity in host relations.

<sup>159</sup> The classification adopted for this subfamily is that of Thomson as elaborated by Schmiedeknecht in his *Opuscula Ichneumonologica*, with some slight modifications and the addition of the tribe Paniscini.

Tribe **CATOGLYPTINI**

(Mesoleptini)

(Subtribe **EUCEROSINA**)

(Eumesina Thompson)

**EUCEROS** Gravenhorst

- E. canadensis** Cress. Cranberry L., Je, *Hily* (Cush-NYS Col. For.); Ithaca, Je (Cush-CU); McLean Bogs, May (Cush-CU).  
**E. couperi** Cress. Rock City, Je (Cush-CU); McLean Bogs, May (Cush-CU).  
**E. flavescens** Cress. Ithaca, Aug (NYS); Bear Mt., Jl (Cush-Schott).  
**E. frigidus** Cress. Cranberry L., Je, *Hily* (Cush-US).  
**E. medialis** Cress. Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); Ithaca, Je-Jl (Cush-CU); Caroline to Harford, Je, *MacG&Bdy* (Cush-CU); McLean, Je 30 (Bdy-CU).  
**E. thoracicus** Cress. McLean Bogs, May (Cush-CU); Ithaca, Je (Cush-CU).

(Subtribe **THYMARIDINA**)**NELIOPISTHUS** Thomson

- N. densatus** (Say). Rock City, Je (Cush-CU, US); McLean, Aug 1-18, *SRobinson* (Cush-CU).  
**N. luggeri** (Ashm.). **LI:** Melville, May, *Schott* (Cush-US). Recorded as a parasite of a tineid larva on Comptonia.

**HYBOPHANES** Foerster

- H. nasutus** (Cress.). L. Placid (Cush).

**ZAGRYPHUS** Cushman

- Z. nasutus** (Cress.). "NY" (Ashm).

(Subtribe **OXYTORINA**)**CALLIDIOTES** Foerster

- C. albopleuralis** (Prov.). Ithaca, Jl (Cush-US).

(Subtribe **PERILISSINA**)

(The members of this subtribe are parasitic on sawfly larvae. There are apparently no recorded hosts of American species.)

**ECLYTUS** Holmgren

- E. perennis** Davis. "NY" (GCDavis).  
**E. pleuralis** (Prov.). Cranberry L., Je, *Hily* (Cush-US), from larva on yellow birch; Waterville, May, *Hawl* (Cush-CU); Ithaca, Ap-Jl (Cush-CU); Van Cort. Pk., Jl (Cush-CU).

SPANOTECNUS Foerster

- S. bicolor** (Cress.). Ithaca (Ashm-US), type of *Prionopoda ruficornis*; Poughkeepsie, Je (NYS).  
**S. concolor** (Cress.). Waterville (Cush-CU); Johnstown, May, *Yg* (NYS); Oswego, May; Lancaster, Je, *EPV* (Vier-US); Rochester Jct., Je, *Leon* (Cush-CU); Rock City, Je (Cush-CU); Pike, Je, *Yg* (NYS); Norton's Landing, Cayuga L., May-Je, *SmHH* (Cress-CU); Ithaca, May-Je (Cush-CU); McLean, May-Je (Cush-CU); Spencer L., Je (Cush-CU).  
**S. decoloratus** (Cress.) (*Perilissus southwicki* Ashm.). Ithaca, Jl (Cush-CU); Central Pk., NYC, *Southwick* (Ashm), type of *Perilissus southwicki*.  
**S. discolor** (Cress.). McLean, Je 18, 1924, *Sib* (Bdy-CU).  
**S. iladus** Davis. "NY" (Ds).

TREMATOPYGUS Holmgren

- T. semirufus** (Cress.). Norton's Landing, Je, *SmHH* (Cress-CU); Ithaca, May (Maidl-CU).

(Subtribe CATOGLYPTINA)

STIPHROSOMUS Foerster

- S. fucatus** (Cress.). Saranac Inn, Jl (NYS).

PROVANCHERELLA Dalla Torre

- P. rhopalocera** (Prov.). "NY" (Ds).

(Subtribe NOTOPYGINA)

CTENOPELMA Holmgren

- C. sanguineum** (Prov.). Oswego, Je (Cush-US).

POLYCINETIS Foerster

- P. limata** (Cress.). "NY" (GCDavis).

NOTOPYGUS Holmgren

- N. cymbaformus** (Davis). Geneva, Je (*Cush*-US).

HOMASPIS Foerster

- H. albipes** Davis. "NY" (type-Amer. Ent. Soc.).

(Subtribe HADRODACTYLINA)

(*Mesoleptina* Thomson)

(The members of this subtribe are parasites on the larvae of sawflies.)

MESOLEPTIDEA Viereck

- M. decens** (Cress.). Rock City, Jl (Cush-CU); Norton's Landing, Je, *SmHH* (Cress-CU); Caroline, Ithaca, Je (Cush-CU); Delmar, Albany, May, Je (NYS).  
**M. zebrata** (Davis). "NY" (type-Am. Ent. Soc.).

## HADRODACTYLUS Foerster

- H. elongatus** (Cress.). Albany, Nassau, May-Je, *EPV* (NYS).  
**H. elongatus** var. **coxatus** Davis. "NY" (type-Am. Ent. Soc.).  
**H. elongatus** var. **femoratus** Davis. McLean, J1 1, 1924, *Sib* (Cush-CU).

(Subtribe **EURYPROCTINA**)**EURYPROCTUS** Holmgren

- E. moyeni** (Prov.). Saranac Inn, J1 (NYS); Poughkeepsie, May (NYS).  
**E. petiolatus** Davis. Ithaca, *Chitt* (Cush-US).

**DIALGES** Foerster

- D. frontalis** Davis. Oswego, Je (Cush-US); Rock City, Je (Cush-CU); Ithaca, May-Je (Cush-US).

**POLYTERUS** Foerster

- P. olympiae** (Ashm.). Ithaca, Aug, Taughannock, J1 (Cush-CU). A series of specimens in the U.S. Nat. Mus. were reared as parasites of the sawfly *Pteronidea ventralis* (Say).

(Subtribe **MESOLEIINA**)**OPHELTES** Holmgren

- O. glaucopterus** var. **flavipennis** (Prov.). Gloversville, Aug (NYS); Ithaca, J1-Aug (CU); McLean, Aug 20, *SRobinson* (Bdy-CU); Richfield Sps., Oct, *Pergande* (Cush-US); Karner, Aug; West Farms, *Angus* (AM); **LI** (Cush-US). Parasite of the elm sawfly, *Cimbex*.

**ABSYRTUS** Holmgren

- A. paniscoides** (Ashm.). Central Pk., NYC (type-US).

**ALEXETER** Foerster

- A. albotarsatus** (Prov.). Ithaca, Je-Sep (Ashm-CU).  
**A. canaliculatus** (Prov.). Spring Lake, J1, *Bdy* (Cush, Maidl-CU); Norton's Landing, Je, *SmHH* (Cush, Maidl-CU); Ithaca, J1 (Bdy-CU); Ellis to Slaterville, Je, *MacG*, *Bdy* (Cush-CU).  
**A. honestus** (Cress.). "NY" (GCDavis); Rensselaer, J1 (NYS).  
**A. riparius** (Davis) (?*Mesoleptus*). McLean, Je 30, 1921 (Cush-CU).

**MESOLEIUS** Holmgren

- M. conformus** Davis. "NY" (GCDavis).  
**M. convergens** Davis. Rock City, Je (Cush-CU); McLean, May (Cush-CU).  
**M. mellipes** (Prov.). Oswego, J1 (Cush-US); McLean, Aug 1, 1925, *SRobinson* (Cush-CU).  
**M. pulchronotus** Davis. Portageville, Je (Cush-CU).



- M. submarginatus** (Cress.). Adirondacks, Aug (Cush-CU); Rock City, Je (Cush-CU); Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); Ithaca, May-Je (Cush-CU); McLean, Aug 27, 1925, *SRobinson* (Cush-CU).

**SPHECOPHAGA** Westwood

- S. burra** (Cress.). Cranberry L., Jl, *Htly* (Cush-US); Bolton (US); New Baltimore, *Zab* (GCDavis); Central Pk., NYC, Ap, *Zab* (AM). Parasitic in nests of *Vespa*.

Tribe **TRYPHONINI**

(*Subtribe* **TRYPHONINA**)

(Including **POLYBLASTINA** Schmiedeknecht)

**SYNOECETES** Foerster

- S. sedulus** (Cress.). "NY" (Davis).

**COSMOCONUS** Foerster

- C. canadensis** (Prov.). Saranac Inn, Je, *Yg* (NYS).

**OTLOPHORUS** Foerster

- O. innumerabilis** Davis var. *feria* Davis. Waterville, Mix Cr. Val., Je, Rock City, Je, Ithaca, May (all Cush-CU).

**EPACHTHES** Foerster

- E. basilicus** Davis. Rock City, Je, Ithaca, May-Je (Cush-US).

**QUADRIGANA** Davis

- Q. americana** (Cress.). Ithaca, May, Van Cort. Pk., Jl (Cush-CU).

**TRYPHON** Fallén

- T. communis** Cress. Elizabethtown, Jl (NYS); Rock City, Mix Cr. Val., Je (Cush-CU); Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); Ithaca, Jl, Spencer L., Je (Cush-CU, US).
- T. communis** var. *clypeatum* Prov. Oswego, Je (Cush-US); Rock City, Mix Cr. Val., Je (Cush-CU); Ithaca to Ellis, Je, *MacG*, *Bdy* (Cush-CU); Ithaca, May-Je (Cush-CU); Center Lisle, Je (Cush-CU).
- T. seminiger** Cress. Rock City, Je, Ithaca, Je-Jl (Cush-CU); Dryden L., Je, *MacG&Bdy* (Cush-CU); Slaterville to Caroline, Je, *MacG&Bdy* (Cush-CU); Spencer L., Je (Cush-CU); Nyack, *Zab* (Cush-US); **LI** (Cush-US).

**POLYBLASTUS** Hartig

- P. pedalis** (Cress.). Black Br., Je (Cush, Maidl-CU); Shelving Rock Br., L. George, Sep 2, *Leon* (Bdy-CU).
- P. tibialis** (Cress.). "NY" (Ashm).

## SCOPIORUS Foerster

**S. analis** (Cress.). McLean, Aug 31-Sep 20, *Sib*, *SRobinson* (Bdy-CU).

**S. subcrassus** (Cress.). Peru, Ithaca, Je (Cush-CU).

## ERROMENUS Holmgren

**E. dimidiatus** (Cress.). L. Placid, Aug (NYS); Norton's Landing, Cayuga L., Je, SmHH (Cress-CU); Homer, Ithaca, McLean, Slaterville to Caroline, May-Jl (Cush-CU).

## MONOBLASTUS Hartig

**M. varifrons** (Cress.). McLean, May (Cush-CU).

## (Subtribe SCOLOBATINA)

## SCOLOBATES Gravenhorst

**S. auriculatus** (Fab.). "NY" (Ashm.).

## Tribe CTENISCINI

## MICROPLECTRON Foerster

**M. albilineatum** (Walsh). Cranberry L., Je, *Hily* (Cush-US).

## CTENISCUS Haliday

**C. clypeatus** Cress. Peru, Je (Cush-CU). Determination queried.

**C. consors** Cress. Ithaca, Aug (Cush-CU). Determination queried.

**C. flavicoxae** Cress. W. Danby, Je, *MacG* (Cush-CU).

## ANECPHYSIS Foerster

**A. curvineura** Davis. Ithaca, Je, *Chitt* (Cush-US, CU).

## EXYSTON Schiødte

**E. abdominalis** Cress. var. **rufinum** Davis. "NY", cotype.

**E. variatum** Prov. "NY" (Davis).

## Tribe PANISCINI

(The members of this tribe are externally parasitic on lepidopterous larvae. The egg is relatively large and is attached by a stalk to the skin of the host. The feeding larva uses the egg shell as a means of keeping its hold on the active host.)

## PANISCUS Schrank

**P. brevicornis** Cush. "NY" (Cush-US).

**P. geminatus** (Say). Newport, May (NYS); Manlius, Sep, Norton's Landing, Cayuga L., Je, *SmHH* (Cress); Ithaca, common (Ashm-CU); Croton-on-Hudson (Felt); Poughkeepsie, Jl (NYS); Nyack, *Zab*; **SI**, May (Ashm-Ds); **LI**: Fishers I., *Zab* (Ds).

- P. geminatus** var. **sayi** Cush. Oswego, Je, Ithaca, J1 (Cush-US).  
**P. leo** Cush. Oswego, *Ludlow* (type-US); McLean, Aug 31, 1924, *Sib* (Cush-CU).  
**P. smithi** Cush. Beaver Cr., J1 10, 1924, *Sib* (Cush-CU).  
**P. unguicularis** Cush. Ithaca, J1 (Cush).

PARABATES Foerster

- P. crassus** Cush. Oswego, May (type-US).  
**P. latungula** Thomson subsp. **deceptor** (Morl.) Bdy. Ithaca, *Yuasa* (Bdy-CU).  
**P. monticola** Cush. Oswego, Oct (Cush-US).

Tribe DIPLAZONINI

(*Bassini* Ashmead)

(The members of this tribe are parasitic on syrphid flies. The egg, at least in some cases, is deposited in the egg of the host, the adult parasite emerging from the host puparium.)

DIPLAZON Nees

(*Bassus* auctt.)

- D. concinnus** (Cress.). Oswego, Je (Cush-US); Ithaca, May-Sep (Cush-CU).  
**D. laetatorius** (Fab.). Cranberry L., Aug, *Htly* (Cush-NYS Col. For.); Oswego (US); Rochester Jct., J1, *Leon* (Cush-CU); Honeoye Falls, May (Cush-CU); Spring Lake, J1 (Cush-CU); Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU), det. as *sycophanta* Cr.; Ithaca, May-Sep, McLean Bogs, May 29 (Cush, Maidl-CU); Mud Cr., Slaterville to Caroline, Je, *MacG&Bdy* (Cush-CU); Binghamton, Aug, *Jackson* (Cush-US); Albany, May, *Yg* (NYS). This is a cosmopolitan and very variable species. It has a long list of synonyms and named varieties. The latter serve no useful purpose, as they are not well defined but are merely steps in a gradual variation.  
**D. orbitalis** (Cress.). "NY" (GCDavis).  
**D. pulchripes** (Prov.). Cranberry L., J1, *Htly* (Cush-NYS Col. For.); Ithaca, May-Sep (Cush-CU).  
**D. scutellaris** (Cress.). Manlius, *SmHH* (Cress-CU); Rock City, Ithaca, Je (Cush-CU).

ENIZEMUM Foerster

- E. tibiale** (Cress.). Poughkeepsie, May, *Yg* (NYS).

HOMOTROPUS Foerster

- H. bicipillaris** (Walsh). Olean, May, *Yg* (NYS).  
**H. bicipillaris** var. **albopictus** Davis. Cranberry L., Je, *Htly* (Cush-NYS Col. For.); Rock City, J1 (Cush-CU); Ithaca, J1-Aug (Cush-CU); McLean, Je 18, *Sib* (Bdy-CU).  
**H. decoratus** (Cress.). Sport I., Sacandaga R., Je, *Alex* (Cush-CU).  
**H. humeralis** (Prov.). Caroline to Harford, Je, *MacG&Bdy* (Cush, Maidl-CU).

## PROMETHEUS Foerster

- P. costalis** (Prov.). Oswego, J1 (Cush-US); Mix Cr. Val., Je (Cush-CU); Spring Lake, J1, *Bdy* (Cush-CU); Ithaca, McLean, Taughannock, May-J1 (Cush-CU); Mud Cr., Ellis to Slaterville, Je, *MacG&Bdy* (Cush-CU); Rhinebeck, J1, *Cy* (Cush-CU).
- P. elongatus** (Prov.). Newport, May (NYS); Ithaca, May, Dryden L., Je (Cush-CU).
- P. ruficrus** (Walsh). Sodus Pt., Aug (NYS); Dryden L., Je, Ellis to Slaterville, Je, *MacG&Bdy* (Cush-CU); Freeville, J1 (Cush-CU); Ithaca, May-Aug (Cush-CU, US).

## SYRPHOCTONUS Foerster

- S. agilis** (Cress.). Oswego, Je (Cush-US); Ithaca, May-J1, McLean, May, Van Cort. Pk., J1 (Cush-CU).
- S. minimus** (Cress.) (*pacificus* Cress.). Ithaca, May-J1 (Cush-CU, US); Mud Cr., Slaterville to Caroline, Je, *MacG&Bdy* (Cush-CU); McLean, May (Cush-CU); W. Danby, Je, *MacG* (Cush-CU); **LI** (Cush-US).
- S. pleuralis** (Cress.). Ithaca, May (Cush-CU).

## ZOOTREPES Foerster

- Z. antennatus** Davis. Ellis to Slaterville, Dryden L., Je, *MacG&Bdy* (Cush-CU); Ithaca, Mar-Sep (Cush-CU); Taughannock, May (Cush-CU).
- Z. compressiventris** (Cress.). Axton, Je, *MacG&H* (Cush-CU); Cranberry L., Je, *Htly* (Cush, Maidl-NYS Col. For.); Waterville, Honeoye Falls, May, Ithaca, Ap-Sep (Cush-CU); Mud Cr., Je, *MacG&Bdy* (Cush-CU); McLean Bogs, May (Cush-CU); W. Danby, Je, *MacG* (Cush-CU); Stuyvesant Falls, May (Cush-CU).

## Tribe ORTHOCENTRINI

## ATMETUS Foerster

- A. tetrazonatus** Ashm. Ithaca, Ap-Aug (Maidl-CU).

## DELETER Foerster

- D. suffuscus** Davis. Wilmington, Aug (Cush-CU).
- D. undulatus** Davis. Mt. Whiteface, 2000-4000 ft., Aug (Cush-CU); Ellis to Slaterville, Je (Cush-CU).

## TAPINOPS Foerster

- T. pusillus** (Walsh). Mt. Whiteface, 2000-4000 ft., Aug (Cush-CU); L. Placid, Aug (Ashm-US); Gloversville, Mar (NYS); Oswego, J1 (Ashm-US); Ithaca, Mar (Maidl-CU); McLean, Aug 17-Sep 30, *Sib*, *SRobinson* (Bdy-CU).

## Tribe EXOCHINI

(The members of this tribe are, so far as is known, parasitic in the pupae of Lepidoptera.)

CHORINAEUS Holmgren

- C. carinatus** Cress. Oswego, J1 (Roh-US).
- C. cariniger** (Walsh). Piseco L., Aug (NYS).
- C. costatus** Davis. Rock City, May (Cush-US); W. Danby, Je (Cush-CU).
- C. onitis** Davis. Rock City, Je (Cush-US); W. Danby, May (Cush-CU).

COLPOTROCHIA Holmgren

- C. trifasciata** (Cress.). "NY" (GCDavis).

EXOCHUS Gravenhorst

- E. atriceps** Walsh. Ellis to Slaterville, Je, *MacG&Bdy* (Cush-CU).
- E. dorsalis** Cress. McLean, Sep 12, *Sib* (Bdy-CU); Pelham Bay Pk., Aug (Cush-CU).
- E. dorsalis** var. **annulicrus** Walsh. Cranberry L., Aug, *Htlly* (Cush-NYS Col. For.); **LI**: Flatbush, May, *Zab* (Bdy-CU); Rockaway (Bdy-AM). Recorded as a parasite of *Archips rileyana* Gr. (Tortricidae).
- E. pallipes** Cress. Essex Co, J1 (NYS); Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); McLean, Aug 12, *SRobinson* (Bdy-CU); Ithaca, May-J1, Van Cort. Pk., J1 (Cush-CU); **LI**: Flatbush, Je, *Zab* (Bdy-CU). A parasite of *Archips rileyana* Gr. and *A. cerasivorana* Fitch (Tortricidae).
- E. pleuralis** Cress. Oswego, J1 (Ashm-US).
- E. semirufus** Cress. Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); Ithaca, Sep (Cush-CU); Albany, May (NYS).

METACOELUS Foerster

- M. laevis** (Cress.). Manlius, Aug, *SmHH* (Cress-CU); Ithaca, Je, Aug (Cush, Ashm-CU); Albany (NYS); **LI**: Flatbush, Je, *Zab* (Cush, Bdy-CU).
- M. mansuetor** (Grav.). Ithaca, May-J1 (Ashm, Cush-CU, US). A cosmopolitan parasite of the clothes moth. Also recorded from *Pyrallis farinalis* L.

TRICLISTUS Foerster

- T. curvator** (Fab.). Wilmington, Aug (Cush-CU); Ilion, Je, *Yg* (NYS); Oswego, Je (Cush-US); Spring Lake, J1 (Cush-CU); Ithaca, Je-J1, Taughannock, J1, McLean, May (Cush-CU); Karner, May, *Yg* (NYS); Van Cort. Pk., J1 (Cush-CU). Recorded in the U.S. Nat. Mus. as a parasite of *Eulia velutina* Wlk., *Archips rileyana* Gr. (Tortricidae), and the European *Nothris verbas-cella*. In the U.S. Nat. Mus. are also specimens reared from *Simaethis pariana* Clerck (Glyptipterygidae), and the grape berry moth, *Polychrosis viteana* Clem.
- T. pygmaeus** (Cress.). Ithaca, Je (Vier-CU). Recorded by Herrick as a parasite of the ugly-nest tortricid, *Archips cerasivorana* Fitch.
- T. propinquus** (Cress.). Saranac L., Aug (Cress-CU); Manlius, Sep, *SmHH* (Cress-CU); Waterville, Rock City, Je, Ithaca, May-J1 (Maidl-CU); Ellis to Slaterville, Je, *MacG&Bdy* (Maidl-CU); McLean Bogs, May-Aug, *Sib* (Mues-CU).



Tribe **METOPINI**

(The members of this tribe are parasitic in lepidopterous pupae.)

**METOPUS** Panzer

**M. pollinatorius** (Say). **LI**: Wading R., Aug (Ds).

SUBFAMILY **OPHIONINAE**<sup>160</sup>Tribe **OPHIONINI**

(The members of this tribe are internal parasites of lepidopterous larvae.)

**ENICOSPILUS** Stephens

**E. flavus** (Fab.) (*appendiculatus* Felt). "NY" (Felt-NYS).

**E. purgatus** Say. Ithaca, Je-Sep (Felt); McLean, Aug 19-Sep 4, *SRobinson*, *Sib* (Bdy-CU); Albany, Je-Aug (NYS); West Farms (Hooker-AM); **LI**: Flatbush, Sep, *Zab* (Hooker-US); Parkville (Hooker-AM). Recorded as a parasite of *Scotogramma trifolii* Rott., *Ceramica picta* Harr. (both Noctuidae), *Schizura unicornis* S. & A. (Notodontidae), and the army worm, *Cirphis unipuncta* Haw.

**E. purgatus** var. *arcuatus* Felt. Ithaca, Jl, *Stedman* (Felt); Albany, May, *Hill* (Felt-NYS); Poughkeepsie, *Yg* (Felt); West Farms; NYC (Felt, Joutel); **LI** (Hooker-US). A specimen in the U.S. Nat. Mus. was reared from *Scoliopteryx libatrix* L. (Noctuidae).

**EREMOTYLUS** Foerster

**E. glabratus** (Say) (*arctiae* Ashm.). Ithaca, Aug (Felt-NYS, CU). Parasite of the fall web-worm, *Hyphantria cunea* Dru., *Isia isabella* S. & A., *Diacrisia virginica* Fab., and *Halisodota agassizii* Pck. (all Arctiidae).

**E. macrurus** (L.). Gloversville (NYS), from *Samia cynthia* Dr.; Ithaca, Jl, Aug, *Stedman* (Felt); McLean, Sep 13, *Sib* (Bdy-CU); Albany, Mar (NYS); West Farms; NYC, *Joutel* (Felt); **LI** (Hooker-US). Recorded as parasite of *Apatelodes torrefacta* S. & A. (Eupterotidae), *Telea polyphemus* Cr., *Samia cecropia* L., and *Callosamia promethia* Dru.

**OPHION** Fabricius

**O. bifoveolatum** Brullé. Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); Ithaca, May-Je (Cress, Felt-NYS, CU); McLean, *Fbs* (CU); West Farms (?Brues-AM); **LI** (Hooker-US).

**O. bilineatum** Say. Newport, Johnstown, Ilion, May-Jl (NYS); Oswego, Je (Hooker-US); Norton's Landing, Cayuga L., *SmHH* (Cress-CU); Ithaca, May-Oct (Felt-NYS, CU); McLean, Je 29-Sep 22 (Bdy-CU); Albany, Karner, May (Felt-NYS); Nyack, *Zab* (Hooker-AM); West Farms (Hooker-AM); **SI** (Vier); **LI**: (Hooker-US); Flatbush, Je, *Zab* (Hooker-US). Parasite on the silver-spotted skipper, *Eudamus tytyrus* Fab.

<sup>160</sup> The ichneumon-flies of America belonging to the tribe Ophionini. By Charles W. Hooker. Trans. Am. Ent. Soc., 38: 1-176.

- O. slossonae** Davis (*ferruginipennis* Felt). Ithaca, rare, Aug 19, 1924, one male, *Babiy*, Sep 1, 1925, one female, *Bdy*, Sep 3, 18, 1924, *Fbs*, a male and a female at light (CU); NYC, *Joutel* (Felt-NYS).

**THYREODON** Brullé

- T. atricolor** (Oliv.) (*brullei* Vier., *morio* auctt.). Peru, Je, *Mix* (CU); Ithaca, Je-Jl (CU); McLean, Aug 11-Sep 16, *Sib*, *SRobinson* (Bdy-CU); Nyack (Hooker-US); West Farms (Hooker-AM); **LI**: Flatbush, Jl, *Zab* (AM). Parasitic on larvae of sphinx moths such as *Lapara coniferarum* S. & A. and *Paonias excaecatus* S. & A.

Tribe **ANOMALINI**

(*Nototrachini* Ashmead)

**ANOMALON** Jurine not auctt.

(*Nototrachys* Marshall)

- A. ejuncidum** Say. "NY" (Ashm).

**NEOGREENEIA** Viereck

- N. picticornis** Vier. Ithaca, *Chitt* (Cush-US).

Tribe **THERIONINI**

(*Anomalini* Ashmead)

(The species of this tribe are internal parasites of lepidopterous pupae.)

**HABRONYX** Foerster

- H. flavistigma** Davis. "NY", type.

**HETEROPELMA** Wesmael

- H. datanae** Rly. **LI**: Long Beach, Jl (Gahan-Schott). Recorded as a parasite of the black-walnut caterpillar, *Datana integerrima* G. & R.  
**H. flavicorne** (Brullé). Saranac Inn, Canandaigua L., Jl (NYS); Ithaca, Aug (US); McLean, Aug 28, *Sib* (Bdy-CU); Nyack, *Zab* (AM); **SI** (Ashm); **LI** (US). Specimens in the U.S. Nat. Mus. are from the yellow-marked apple-worm, *Datana ministra* Dr., and other species of *Datana*.

**AGRYPON** Foerster

- A. chlamidatum** (Prov.). McLean (Cush-US).

**LABRORYCHUS** Foerster

- L. analis** (Say). Ithaca, Jl (Mues-CU,NYS); McLean, Jl 18-Sep 7, *Sib* (Cush-CU); Poughkeepsie, May-Jl, *Yg* (NYS). This is a common parasite of the tent caterpillars, specimens in the U.S. Nat. Mus. having been reared from the American tent caterpillar, *Malacosoma americana* F., *M. fragilis* Stretch, and the forest tent caterpillar, *M. disstria* Hbn.

## PARANOMALON Viereck

(Anomalon auctt.)

- P. ambiguum* (Nort.). Woodworth's L., May (NYS).  
*P. clavipes* (Davis). Oswego, Je (Gahan-US).  
*P. curtum* (Davis). Manlius, *SmHH* (Cress-CU).  
*P. edwardsii* (Cress.). **LI** (Gahan-US).  
*P. exile* (Prov.). Lyons Falls (Felt); Glens Falls, J1 (NYS), both from cocoons of the forest tent caterpillar, *Malacosoma disstria* Hbn.  
*P. ferrugineum* (Nort.). Manlius, *SmHH* (Cress-CU).  
*P. filiforme* (Prov.). Big Moose, J1 (NYS).  
*P. hyalinum* (Nort.). Mt. Whiteface, J1, *Ald* (Gahan-US).  
*P. laterale* (Brullé). "NY" (Nort).  
*P. nigrorufum* (Nort.). "NY" (Nort). A specimen in the U.S. Nat. Mus. is said to have been reared from *Datana contracta* Wlk. (Notodontidae).  
*P. relictum* (Fab.). "NY" (Nort). Specimens in the U.S. Nat. Mus. were reared from *Datana* sp.  
*P. semirufum* (Nort.). Albany (Nort); Newport, May, *Yg* (NYS).

## THERION Curtis

- T. fuscipenne* (Nort.). McLean, J1 20-Aug 20, *SRobinson* (Bdy-CU); **LI**: Fire I., Aug (Gahan-Schott). Recorded as a parasite of *Merolonche lupini* Gr. and *Apatela hastulifera* S. & A. Specimens in the U.S. Nat. Mus. were reared from *Acronycta americana* Harr., *A. hesperida* Sm., and the "salt-marsh caterpillar".  
*T. hyaline* (Nort.). McLean, Je 30, 1921 (Cush-CU).  
*T. morio* (Fab.) (*Exochilum mundum* Say). Manlius, *SmHH* (Cress-CU); Ithaca, Je-Aug (CU,US); Freeville, J1, *Comstock* (CU); McLean, J1 20-Sep 17, *Sib* (Bdy-CU); Binghamton, *Jackson* (Cush-US); **SI** (Ashm-Ds); **LI**: Flatbush, *Zab* (US); Fishers I., *Zab* (AM). Recorded as a parasite of *Vanessa cardui* L., *Papilio marcellus* Cr., *Zerene catenaria* Dr. (Geometridae). A specimen in the U.S. Nat. Mus. is said to have been reared from *Halisidota maculata* Harr. (Arctiidae).  
*T. occidentale* (Cress.). **SI**, Aug (Gahan-Schott).  
*T. tenuipes* (Nort.). "NY" (Cress-CU). Recorded as a parasite of *Diacrisia virginica* Fab. (Arctiidae).

## Tribe CAMPOPLEGINI

(With a few exceptions, the members of this tribe are internal parasites of lepidopterous larvae.)

## CAMPOPLEGIDEA Viereck

- C. alia* (Nort.). Ithaca, J1 (NYS).  
*C. argentea* (Nort.). Ithaca, Je (NYS); McLean, Aug 31, 1925, *SRobinson* (Cush-CU).

- C. diversa** (Nort.). Cranberry L., Je, *Htly* (Cush-US); Manlius, Aug, *SmHH* (Ashm-CU); Ithaca, *Chitt* (Cush-US); Ft. Montgomery, Je (Cush-Schott); **SI** (Ashm-Ds).  
**C. laticincta** (Cress.). **LI**: Flatbush, Je, **JI**, *Zab* (Cush-US, AM).  
**C. minor** (Prov.). Ithaca, Karner, Sep-Oct (NYS).

VIERECKIANA Strand

- V. bellulus** (D.T.). McLean, Aug 26, 1924, *Sib* (Cush-CU).  
**V. brachiator** (Say). McLean, Aug 18-24, *SRobinson* (Cush-CU).  
**V. villosa** (Nort.). Albany, Aug, Poughkeepsie, May (NYS).  
**V. vitticollis** (Nort.). Oswego, Aug (Gahan-US); McLean, Aug 28, 1924, *Sib* (Cush-CU); Karner, Poughkeepsie, Je, *Yg* (NYS).

ZASTENOMORPHA Viereck

- Z. lamina** Vier. Ithaca, **JI** (Cush-US).

CASINARIA Holmgren

- C. orgyiae** (How.). Corinth (Felt). A parasite of the white-marked tussock-moth, *Hemerocampa leucostigma* S. & A.

HYPOSOTER Foerster

- H. annulipes** (Cress.). Oswego, **JI** (Ashm-US); Ithaca, *Chitt* (Cush-US); **LI**: Huntington, Ap (Cush-Schott). Recorded as a parasite of *Mamestra picta* Harr. (Noctuidae), *Gelechia pseudoacaciella* Chamb. (Gelechiidae), and *Acrobasis indigenella* Zell. (Pyralidae). A specimen in the U.S. Nat. Mus. was reared from *Autographa precationis* Guen., and another from *Heliothis obsoleta* Fab. (Noctuidae).  
**H. clisiocampae** (Weed). Ithaca, *Liu* (Mues-CU); Crataegus Hill, Je, *Htly* (Cush-NYS Col. For.). The types and the Ithaca specimens were reared from the tent caterpillar *Malacosoma americana* Fab., and there is a specimen in the U.S. Nat. Mus. reared from the brown-tail moth, *Euproctis chrysorrhoea* L.  
**H. fugitivus** (Say). Lockport, Aug (NYS); Ithaca, *Liu* (Mues-CU), from *Malacosoma americana*; Albany, **JI** (NYS); Haines Falls, *Rusk* (Lint-NYS), from *Oedemasia concinna*. Recorded as a parasite of the tent caterpillars *Malacosoma americana* Fab. and *M. disstria* Hbn. (Lasiocampidae), *Anisota senatoria* S. & A., *A. stigma* Fab., *A. virginiensis* Dru., *A. rubicunda* Fab. (Citheroniidae), *Hemileuca maia* Dru., *Euchaetes egle* Dr. (Arctiidae), *Apatura clyton* B. & LeC., *A. celtis* B. & LeC. (Nymphalidae), the skipper *Pholisora catullus* Fab., and *Acrobasis indigenella* Zell. (Pyralidae).  
**H. geometrae** (Ashm.). Cranberry L., Aug, *Htly* (NYS Col. For., US); Hamden, Je (Cush-US); McLean, Aug 1 (Cush-CU).  
**H. pallipes** (Prov.). Oswego, May (Cush-US); Buffalo, Sep, MrsNEDavis (Cush-US). Two specimens in the U.S. Nat. Mus. were reared at Washington, DC, from a *Hemerocampa*, probably *leucostigma*.  
**H. pilosulus** (Prov.). McLean, Aug 1, 1925, *SRobinson* (Cush-CU).

## CYMODUSA Holmgren

- C. distincta** (Cress.). Oswego, Je, Aug (Cush-US); Ithaca, *Chitt* (Cush-US); Slingerlands, J1 (NYS); **LI** (Cush-US).

## SAGARITIS Holmgren

- S. consimilis** (Ashm.). Oswego, Je (Cush-US); Ithaca, *Chitt* (Cush-US); **LI** (Cush-US). Parasitic on cutworms, specimens in the U.S. Nat. Mus. having been reared from *Feltia* sp. and *Agrotis ypsilon* Rott.
- S. oxylus** (Cress.). Mt. Whiteface, summit, J1, *Ald* (Cush-US); Ithaca, *Chitt* (Cush-US); McLean, Aug 1 (Cush-CU). Recorded as a parasite of the army worm, *Cirphis unipuncta* Haworth. Specimens in the U.S. Nat. Mus. also from *Epiglaea apiata* and *Laphygma frugiperda* S. & A. (Noctuidae).
- S. provancheri** (D.T.). Rotterdam, Aug, *Scarls* (Gahan-US). Recorded as a parasite of *Laphygma frugiperda* S. & A. (Noctuidae). In the U.S. Nat. Mus. also specimens reared from the European corn-borer, *Pyrausta nubilalis* Hbn., *Heliothis obsoleta* F., *Neleucania* sp. probably *diffusa*, *Prodenia ornithogalli* Guen., *Polia stricta* Wlk., *Hadena procincta* Gr., *Triphaena confusa* (all Noctuidae).

## OLESICAMPE Foerster

(The members of this genus are parasitic on sawfly larvae.)

- O. argentifrons** (Cress.). Ithaca, Je, Albany, Sep (NYS).

## PYRACMON Holmgren

(The species of Pyracmon are parasitic on wood-boring coleopterous larvae.)

- P. macrocephalum** Prov. Syracuse, *Blkm* (Cush-CU).

## NEMERITIS Holmgren

- N. canescens** (Grav.). Ithaca, Nov (Mues, Gahan-US, CU); **LI**, Aug (US). A cosmopolitan parasite of lepidopterous pests in stored products.
- N. ruficoxa** (Prov.). Manlius, Sep, *SmHH* (Ashm-CU); Oswego (Cush-US); **LI**: Barren I., Flatlands, Aug, *Zab* (Cush-US).

## IDECHTHIS Foerster

- I. nigrocoxalis** Cush. Youngstown (type-US). Bred from *Euzophera semifuneralis* Wlk. (Pyralidae).

## CAMPOPLEX Gravenhorst

- C. ferrugineipes** (Ashm.). McLean, Sep 19, 1924, *Sib* (Cush-CU).
- C. nigricincta** (Ashm.). L. Placid, Aug (Ashm-US); Freeville, Aug (Ashm-CU).
- C. polychrosidis** Vier. **LI**: Richmond Hill, J1, *Kf* (paratype-US).

## ECHTHRONOMAS Foerster

- E. ochreofrons** Cush. McLean (Cush-US).



ANGITIA Holmgren

- A. plutellae** Vier. Ithaca, JI, *Mues* (Cush-US). Host: *Plutella maculipennis* Curt. (Yponomeutidae).  
**A. tibiator** (Cress.). Albany, Je (NYS).

SESIOPLEX Viereck

- S. depressus** Vier. Ithaca, *Chitt* (Cush-US). Parasites of larva of the goldenrod gall-maker, *Gnorimoschema gallaesolidaginis* (Rly.).

EULIMNERIA Schmiedeknecht

- E. valida** (Cress.). Cranberry L., Je, *Htly* (Cush-NYS Col. For.); Ithaca, JI (Vier-US, NYS); Poughkeepsie, Je (NYS). A common parasite of the fall web-worm, *Hyphantria cunea* Dru.

DIOTES Foerster

- D. obliteratus** (Cress.) (*Thymaris slingerlandana* Ashm.). Ithaca, Aug, *Sling* (Ashm-CU, US); Westchester Co, Oct (Gahan-US). A common parasite of the grape berry moth. Specimens in the U.S. Nat. Mus. are from the oriental peach moth (*Laspeyresia molesta* Busck), an introduced apple leaf-roller (*Simaethis pariana* Clerck), and *Eulia velutinana* Wlk.  
**D. salicicola** (Ashm.). Albion, *Felt* (Ashm), from *Ypsolophus ligulellus* Hbn. The type was reared from a gall on willow.

BATHYPLECTES Foerster

(Several species of this genus are known to be parasitic on curculionid larvae, and it is probable that all are.)

- B. exigua** (Grav.). Ithaca, *Mues* (Cush-US). Specimens in the U.S. Nat. Mus. from *Phytonomus nigrirostris* (Fab.) and *Hypera punctata* (Fab.), the clover-leaf weevils.

Tribe CREMASTINI<sup>161</sup>

(With the exception of a few species of the subgenus *Zaleptopygus*, all the species of this tribe the habits of which are known are parasites of lepidopterous larvae.)

EIPHOSOMA Cresson

(Subgenus BRACHIXIPHOSOMA Viereck)

- E. pyralidis** Ashm. Ithaca, JI (Ckll-US); Nyack, *Zab* (Ckll-US); LI: Flatbush, *Zab* (AM). The type was reared from a "pyralid on Solidago."

PRISTOMERUS Curtis

- P. fuscipennis** Cush. Oswego, Aug (paratype-US).

<sup>161</sup> A revision of the hymenopterous insects of the tribe Cremastini of America, north of Mexico. By Robert A. Cushman. Proc. U.S. Nat. Mus., 1917, 53: 503-551.

## PSEUDERIPTERNUS Viereck

**P. radiolatus** (Prov.). Larchmont (AM); **LI**: (Vier-US); Flatbush, *Zab* (AM).

## CREMASTUS Gravenhorst

(Subgenus **CREMASTUS** Gravenhorst)

**C. decoratus** Grav. **LI** (Cush-US). Host: *Rhyacionia buoliana* Schiff. (Tortricidae).

**C. facilis** (Cress.). Oswego, Aug (Cush-US).

**C. forbesii** Weed. Mt. Whiteface, summit, *Jl*, *Ald* (Cush-US); Oswego, Aug (Cush-US). Specimens in the U.S. Nat. Mus. reared from *Gelechia trialbamaculella* Chamb., *G. confusella* Chamb. (Gelechiidae), and *Eulia velutinana* Wlk. (Tortricidae).

**C. graciliventr** Cush. McLean, Aug. 28, 1924, *Sib* (Cush-CU).

(Subgenus **ZALEPTOPYGUS** Viereck)

**C. hartii** (Ashm.). Ithaca, Je-Sep (Ashm).

**C. dorcascemae** Cush. Syracuse, *Blkm*, *Drk* (type-US). Types reared from pupal cells of the longicorn beetle *Dorcascema nigrum* (Say).

**C. incompletus** (Prov.). Oswego, *Jl* (Cush-US).

**C. retinia** (Cress.). Ithaca (type-US), from *Rhyacionia rigidana* Fern.; **SI** (Vier, Ashm-Ds).

**C. rostratus** Cush. "NY", Aug (type-US).

Tribe **PORIZONINI****ORTHOPELMA** Taschenberg

(These live as parasites in the galls of Cynipidae.)

**O. luteolator** (Grav.). Ithaca, May (Ashm-CU). A common parasite of *Rhodites rosae* (L.).

**O. minutum** (Ashm.). **LI**: Jamaica Plains, May (type-US), from *Rhodites* gall.

**LEPTOPYGUS** Foerster

**L. politus** (Ashm.). Stony I., *Jl* (Cush-US).

**THERSILOCHUS** Holmgren

**T. conotracheli** Rly. Oswego, May, Je (Cush-US); **LI** (Ashm-US). A parasite of the plum curculio.

**T. provancheri** (Ashm.). **LI** (Ashm).

**HETEROCOLA** Foerster

**H. americana** Brues. Oswego, Aug (Cush-US).

Tribe **PLECTISCINI**

**MEGASTYLUS** Schiødte

**M. albocollaris** (Cress.). Oswego, Aug (Ashm-US).

**APERILEPTUS** Foerster

**A. clypeatus** Cush. McLean, Aug 25, 1925, *SRobinson* (Cush-CU).

**A. delicatus** Cush. Bear Mt., Sep (Cush-Schott).

**DIACRITUS** Foerster

**D. muliebris** (Cress.). Cranberry L., Aug, *Htly* (Cush-NYS Col. For.); N. Fair Haven, Sep (Cush-CU); Ithaca, *Chitt* (Cush-US); McLean, Aug 7-Sep 16, *Sib*, *SRobinson* (Cush-CU).

Tribe **BANCHINI**

**BANCHUS** Fabricius

(The members of this genus are parasitic in lepidopterous pupae.)

**B. borealis** Cress. Speculator, Remsen, Karner, Je-Aug, *Yg* (NYS); **LI**: Flatbush, *Zab* (?Brues-AM).

**B. canadensis** Cress. Old Forge, Jl, *Yg* (NYS).

**B. ferrugineus** Prov. Bear Mt., Je (Cush-Schott).

**B. flavovariegatus** Prov. Saranac Inn, Je (NYS); **LI**: Huntington, Ap (Cush-Schott,US).

**B. inermis** Prov. Ithaca, Sep (Bdy-CU).

**B. pallescens** Prov. Poughkeepsie, May (NYS).

**CERATOGAстра** Ashmead

**C. ornata** (Say). Nyack, *Zab* (AM); **SI**, Aug (Vier, Ashm-Ds, Schott); **LI**: (Cush, Gahan-US); Southampton, Aug, *Gabrielson* (Cush, Gahan-US).

Tribe **MESOCHORINI**

**CIDAPHUS** Foerster

**C. paniscoides** (Ashm.). "NY", *Pergande* (Cush-US).

**ASTIPHROMMA** Foerster

**A. uniformis** (Cress.). Ithaca, Sep (Ashm-CU).

**MESOCHORUS** Gravenhorst

(Most, if not all, of the species of this genus are secondary parasites attacking other Ichneumonidae and Braconidae.)

**M. agilis** Cress. Newport, May, *Yg* (NYS).

- M. aprilius** Ashm. **LI**: Flatbush, Aug, *Zab* (AM). Ashmead records it as bred from *Apanteles*.  
**M. luteipes** Cress. Manlius, Oct, *SmHH* (Ashm-CU); Nyack, Sep, Oct, *Zab* (Ashm-AM, US).  
**M. obliquus** Cress. Albany, May (NYS).  
**M. provancheri** D.T. (*politus* Prov.). Ithaca (Sling&Flet).

## FAMILY TRIGONALIDAE

## LYCOGASTER Shuckard

- L. pullata hollensis** (M. & B.). Ithaca, J1 19, 1919, *And* (Bdy-CU). One of the rarest insects recorded from the State. This species has been recorded from a cocoon of *Telea polyphemus*, and is believed to be a parasite on *Eremotylus macrurus* contained therein (Bdy).

## ORTHOGONALOS Schultz

- O. pulchellus** (Cr.). Ithaca, J1 3, 1904, *RSWoglum*, J1 21-23, numerous individuals, *Yuasa* (Bdy-CU); Taughannock, J1 21, 1905, *GCCrampton* (Bdy-CU); Karner, J1, 1902 (Bdy-NYS).

## TAPINOGONALOS

- [*T. costalis* (Cress.). Hewitt, N. J., near the NY border, J1 (DS).]

## FAMILY AULACIDAE

(With the exception of species of *Pammegischia*, these are parasites of wood-boring coleopterous larvae.)

## ODONTAULACUS Kieffer

- O. abdominalis** (Cress.). Keene Val., J1 (Bdy-NYS); Big Moose, J1 (Bdy-NYS); Black Br., Je 21 (Bdy-CU); Norton's Landing, Cayuga L., *SmHH* (Bdy-CU); Karner, Je (Bdy-NYS).  
**O. bilobatus** (Prov.). L. Clear, J1 9, 1903 (Bdy-NYS); Ithaca, J1-Aug (Bdy-CU); Scarsdale, Mar 14-26, 1913 (Bdy-NYS); Albany, Aug 25, 1913 (Bdy-NYS); Broadalbin, Je 29, 1915 (Bdy-CU).

## PRISTAULACUS Kieffer

(Subgenus **PRISTAULACUS** Kieffer)

- P. flavicrurus** (Bdy.). Keene Val., J1 24 (Bdy-NYS).  
**P. fuscalatus** (Bdy.). Rensselaer, J1 26, 1901 (Bdy-NYS).  
**P. niger** (Shuckard). L. Pleasant, J1 20 (Bdy-NYS); Albany, Je 21, Sep (Bdy-NYS).

(Subgenus **OLEISOPRISTER** Bradley)

- P. abbottii** (Westw.). Ft. Montgomery, Je 9, *Schott* (Cush).  
**P. glabrescens** Bdy. Albany, Je 5, 1909 (holotype-NYS).  
**P. stigmaterus** (Cress.). Geneva (Bdy-CU); Norton's Landing, Cayuga L., Je 21, *SmHH* (Cress, Bdy-CU); West Pt., Je 17, *Ds* (Beq).  
**P. subfirmus** (Vier.). **LI**: Bellport, *Nic* (Sf-BM).  
**P. taughanic** Bdy. Taughannock Falls, Aug 3, 1925, *Guerlac* (holotype-CU).

## PAMMEGISCHIA Provancher

(The species of this genus are parasites of the wood-boring larvae of the horntails of the family Xiphydriidae.)

- P. burquei** Prov. Essex Co, J1 (Bdy-NYS); McLean, Je 30, 1921 (Bdy-CU); Nassau, J1 (Bdy-NYS); **LI**: Yaphank, Je (Bdy-BM).  
**P. pallipes** Cress. Saranac Inn (US), type of *xiphydriæ* Ashm.; Caroline to Harford, Je 15, *MacG* (Bdy-CU).

## FAMILY STEPHANIDAE

(Regarded as extremely rare insects.)

## SCHLETTERERIUS Ashmead

- S. cinctipes** Cress. "NY" (Schletterer).  
**S. rufipes** Say. **LI**, *Eng* (Sf-BM).

## FAMILY GASTERUPTIONIDAE

(*Foenidae*)

The eastern species of this family have usually been identified as *Gasteruption incertum* or *G. tarsatorium*, according to whether they have short or long ovipositors. Kieffer has shown that, in fact, other species of *Gasteruption*, as well as of his genus *Trichofoenus*, are involved, and pending definite determination of the species to which each record should apply we are obliged to omit most records, despite the fact that specimens are numerous, attracted by the flowers of wild parsnip and other plants, in late summer. Numerous specimens from New York State were in the hands of L'Abbé Kieffer at the time of his death, and had he lived to determine these the records below would doubtless be much more extensive. The insects are parasites of bees.

## GASTERUPTION Latreille

(*Foenus* Fabricius)

- G. assectator** (L.). According to Kieffer a holarctic species. He records it from NY.  
**G. tarsatorium** (Say). Ithaca, Je 25 (Bdy-CU).  
**G. intricatum** Kf. Ithaca, J1 24-Aug 24 (Bdy-CU).

## TRICHOFOENUS Kieffer

- T. canadensis** Kf. Ithaca, Je 13-17 (Bdy-CU); Spencer L., Je 30 (Bdy-CU).  
**T. micrurus** Kf. New Russia, Aug 18 (Bdy-CU); Niagara Falls, Je 27, *Vier* (Bdy-CU); Crosby Landing on L. Keuka, Je 26 (Bdy-CU); Ithaca, Je 14-J1 25 (Bdy-CU); Taughannock, J1 4 (Bdy-CU). This seems to be the common form usually identified as *Gasteruption incertum*.

## Superfamily PROCTOTRUPOIDEA or SERPHOIDEA

## FAMILY ROPRONIIDAE

## ROPRONIA Provancher

- R. garmani** Ashm. Ithaca, J1 22, 1918, *Yuasa* (Bdy-CU).  
**R. ashmeadi** Bdy. Ithaca, J1 9, 1904 (*MacG*) (type-CU).



## FAMILY HELORIDAE

## HELORUS Latreille

- H. paradoxus** (Prov.). Ithaca, *Smith* (Bdy-CU), bred from *Chrysopa*; L. George, Aug 3, 1903 (Bdy-AM).

## FAMILY VANHORNIIDAE

## VANHORNIA Crawford

- V. eucnemidarum** Crawford. Ithaca (Bdy-CU). Two specimens found at Ithaca in different years are the only records of the occurrence of this anomalous family, except the type series, taken from cells of eucnemid larvae in Maryland and Virginia.

FAMILY DIAPRIIDAE<sup>162</sup>

## (Belytidae)

Compiled by ROBERT M. FOUTS

## SUBFAMILY BELYTINAE

## BELYTA Nees

- B. robustior** Fouts. Proc. Ent. Soc. Wash., 1925, 27:152. Ithaca, J1, *Bdy* (type-CU).  
**B. rugifrons** Fouts. McLean, Aug 19 (type-CU).

## ACLISTA Foerster

- A. excavata** Fouts. McLean, J1-Aug (type-CU).  
**A. oblitterata** Fouts. McLean, Aug 31 (type-CU).  
**A. palustra** Fouts. McLean, Aug 31 (type-CU).  
**A. simulans** Fouts. McLean, J1 26 (type-CU).

## XENOTOMA Foerster

- X. antennalis** Fouts. McLean, Aug 20 (type-CU).  
**X. curvicaudis** Fouts. McLean, Aug 19 (type-CU).  
**X. palustra** Fouts. McLean, Aug 17 (type-CU).  
**X. pilosa** Fouts. McLean, Aug 31 (type-CU).

## CINETUS Jurine

- C. pleuralis** Fouts. Proc. Ent. Soc. Wash., 1925, 27:151. McLean Bogs (type).

<sup>162</sup> Comparatively little material from New York State of this and the five succeeding families has been determined in collections. In the collections of Cornell University, Mr. Fouts has recognized unidentified or undescribed species in the following genera: *Acerota* (1 n. sp.), *Aclista*, *Anectata* (2 n. spp.), *Aneurhynchus* (1 n. sp.), *Aparamesius*, *Ashmeadopria*, *Belyta* (3 n. spp.), *Cinetus* (7 n. spp.), *Cryptoserphus*, *Exallonyx*, *Galesus* (2 n. spp.), *Leptorhaptus* (3 n. spp.), *Oxylabis* (1 n. sp.), *Pantoclis* (6 n. spp.), *Paramesius*, *Phaenopria* (1 n. sp.), *Platygaster* (1 n. sp.), *Proctotrupes* (1 n. sp.), *Spilomicrus*, *Trichopria* (1 n. sp.), and *Xenotoma*.

## MIOTA Foerster

**M. rufopleuralis** Ashm. Can. Ent., 1897, 29: 589. Ithaca, J1 (Fouts-CU).

## SUBFAMILY DIAPRIINAE

## PHAENOPRIA Ashmead

**P. aptera** Ashm. Ithaca, Nov 19, Cy; McLean, May 16, *Leon* (Fouts).

## DIAPRIA Latreille

**D. conica** (Fab.). Syst. Ent., 1775, p. 343. Malloryville, Je 18-20, Mud Cr., *MacG&Bdy* (Fouts-CU); McLean, J1 3 (Fouts-CU); Albany; **LI** (Ashm).  
Host: *Eristalis tenax* (L.).

## GALESUS Haliday

**G. viereckii** Brues. Bul. Wisc. Nat. Hist. Soc., 1905, (2)3: 187. Ithaca, J1 12, *Yuasa* (Bdy-CU).

## IDIOTYPA Foerster

**I. pallipes** Fouts. Proc. Ent. Soc. Wash., 1925, 27: 102. McLean, Je, Cy (holotype).

## LOXOTROPA Foerster

**L. flavipes** Ashm. Bul. U.S. Nat. Mus., 1893, 45: 415. **LI**, *Bird* (Crawf), hyper-parasite bred from cocoons of *Papaipema maritima* Edw.

## PARAMESIUS Westwood

**P. pallidipes** Ashm. Bul. U.S. Nat. Mus., 1893, 45: 395. Ithaca, Aug 16, *Yuasa* (Bdy-CU).

## APARAMESIUS Kieffer

**A. nigriclavus** Fouts. McLean, May 16, *Leon* (type-CU).

## ANEURHYNCHUS

**A. mellipes** Ashm. Can. Ent., 1888, 20: 52. McLean, Aug 31, 1925, *SRobinson* (Fouts-CU).

## TRICHOPRIA Ashmead

**T. agromyzae** (Fitch). Second Rep. Ins. N. Y., 1856, p. 303. **LI**, type locality, from *Meoneura vagans* (Fall.).

## SPILOMICRUS Westwood

**S. kiefferi** Fouts. Proc. Ent. Soc. Wash., 1925, 27: 150. Saranac L., Aug 26, 1916 (types-CU).

## FAMILY PROCTOTRUPIDAE or SERPHIDAE

Compiled by ROBERT M. FOUTS

## PROCTOTRUPES Latreille

*(Serphus* Schrank)

- P. clypeatus** (Ashm.). Bul. U.S. Nat. Mus., 1893, 45:339. Ithaca, type locality.  
**P. linellii** (Ashm.). Bul. U.S. Nat. Mus., 1893, 45:337. **LI**, type locality.  
**P. rufigaster** (Prov.). Nat. Can., 12:263. Onteora Mt., 2500 ft., *How* (Crawf).  
**P. terminalis** (Ashm.). Bul. U.S. Nat. Mus., 1893, 45:337. Axton, Je, *M&H* (Ashm., Fouts); Ithaca, Je-Aug (Fouts-CU); Rhinebeck, Jl 27, *Cy* (Fouts-CU).

## FAMILY CALLICERATIDAE

## CALLICERAS Nees

- C. melanocerus** (Ashm.). Bul. U.S. Nat. Mus., 1893, 45:129. Ithaca, bred from pine-cone willow-galls (Ashm).

## FAMILY SCELIONIDAE

Compiled by ROBERT M. FOUTS

## ACOLUS Foerster

- A. zabriskiei** Ashm. Bul. U.S. Nat. Mus., 1893, 45:175. **LI**, type locality. A parasite of spiders' eggs.

## ANTERIS Foerster

- A. nigriceps** Ashm. Bul. U.S. Nat. Mus., 1893, 45:226. Manlius, Aug 19, *SmHH* (Ashm-CU).

## BAEUS Haliday

- B. americanus** How. Ins. Life, 1890, 2:270. **LI**, type locality. A parasite of spiders' eggs.

## GRYON Haliday

- G. flavipes** Ashm. Bul. U.S. Nat. Mus., 1893, 45:208. McLean Bogs, May, *Cy&Leon* (Fouts).

## HOPLOGRYON Ashmead

*(Prosacantha* Nees)

- H. brachypterus** (Ashm.). Can. Ent., 1898, 30:50. McLean, May, Jl, *Cy&Leon* (Fouts); Cinnamon L., Je 5, *Cy* (Fouts).  
**H. coxalis** Fouts. Proc. Ent. Soc. Wash., 1925, 27:103. Suffern, May, *Cy* (holotype).  
**H. flavipes** (Ashm.). Bul. U.S. Nat. Mus., 1893, 45:208. McLean, Jl, *Cy* (Fouts).  
**H. grandis** Brues. Bul. Wisc. Nat. Hist. Soc., 1907, 5:102. **LI**, type locality.  
**H. linellii** (Ashm.). Bul. U.S. Nat. Mus., 1893, 45:195. **LI**, type locality.  
**H. obscuripes** Ashm. Bul. U.S. Nat. Mus., 1893, 45:204. Cinnamon L., Je 5, *Cy* (Fouts).  
**H. rufipes** Ashm. Bul. U.S. Nat. Mus., 1893, 45:205. McLean, Jl, *Cy* (Fouts).

**HOPLOTELEIA** Ashmead

- H. noveboracensis** Brues. Bul. Wisc. Nat. Hist. Soc., 1908, 6:49. NYC, type locality.

**MACROTELEIA** Westwood

- M. virginensis** Ashm. Bul. U.S. Nat. Mus., 1893, 45:218. Manlius, Aug, *SmHH* (Ashm-CU).

**OPISTHACANTHA** Ashmead

- O. mellipes** Ashm. Bul. U.S. Nat. Mus., 1893, 45:221. LI: Riverhead, Je 28, *Cy* (Fouts).

**TELEAS** Latreille

- T. lineaticeps** Ashm. Bul. U.S. Nat. Mus., 1893, 45:199. Manlius, Aug 19, *SmHH* (Ashm-CU).

**TELENOMUS** Haliday

- T. hemerocampae** Wilcox. Psyche, 1920, 27:78. LI: Brooklyn, from the white-marked tussock caterpillar, *Hemerocampa leucostigma* S. & A.

- T. fiskei** Brues. Psyche, 1910, 17:106. "NY", type locality. Host: *Hemerocampa leucostigma* S. & A.

- T. longicornis** Ashm. Bul. N.Y. State Mus., 1901, 47:586. Adirondacks.

- T. clisiocampae** Rly. Bul. U.S. Nat. Mus., 1843, 45:160. Ithaca, Spring Val., White Plains, Suffern, Tallman, *CLLin* (Mues), reared from eggs of the tent caterpillar *Malacosoma americana* F.

- T. orgyiae** Fitch. Eighth Rep. N.Y. State Ent., p. 197. "NY" (Fitch), from eggs of *Notolophus antiqua* L. subsp. *nova* Fitch.

- T. podisi** Ashm. Bul. U.S. Nat. Mus., 1893, 45:158. Enfield Glen, Ap 22, *Cy&Secley* (Fouts).

**TIPHODYTES** Bradley

- T. gerriphagus** Marchal. Ann. Soc. Ent. France, 69:171. Ithaca, Je 11 (*Cy&Mat-CU*), reared from the eggs of *Gerris remigis* Say.

**TRISSOLCUS** Ashmead

- T. podisi** Ashm. Bul. U.S. Nat. Mus., 1893, 45:162. Ithaca, Jl 22 (Brues-CU), bred from pentatomid eggs.

- T. thyantae** Ashm. Bul. U.S. Nat. Mus., 1893, 45:163. Colonie (Gahan). Host: *Thyanta custator* (Fab.) (Pentatomidae).

FAMILY **PLATYGASTERIDAE**<sup>163</sup>

Compiled by ROBERT M. FOUTS

**ACEROTA** Foerster

- A. leonardi** Fouts. Proc. Ent. Soc. Wash., 1925, 27:147. McLean Bogs, May 16, *Leon* (type).

<sup>163</sup> Revision of the North American wasps of the subfamily Platygasterinae. By Robert M. Fouts. Proc. U.S. Nat. Mus., 1924, 63: 1-145.

## ERITRISOMERUS Ashmead

- E. noveboracensis** Brues. Bul. Wisc. Nat. Hist. Soc., 1910, 8: 48. Albany, type locality. Bred from a cecidomyiid gall.

## FIDIOBIA Ashmead

- F. flavipes** Ashm. (*Rosnetta tritici* Brues). Journ. Cincinnati Soc. Nat. Hist., 1894, 17: 171. Middleport, types of *Rosnetta tritici* Brues; Westfield, parasite of grape root-worm, *Slings*.

## INOSTEMMA Haliday

- I. leguminicolae** Fouts. Proc. Ent. Soc. Wash., 1923, 25: 64. Ithaca, type locality; reared by Wehrle from the clover midge, *Dasyneura leguminicola* (Lint).

## LEPTACIS Foerster

- L. hopkinsi** (Crawf. & Bdy.) (*Dolichotrypes hopkinsi*). Proc. Ent. Soc. Wash., 1911, 13: 124. Ithaca, *Comstock* (types-CU, US), many females inserting slender part of abdomen into intercellular spaces of wood near the bark of a freshly cut oak stump along Fall Creek.
- L. bradleyi** Fouts. Proc. U.S. Nat. Mus., 1924, 63: 132. Ithaca, *Comstock* (type-CU, US); collected under the same circumstances as, and in company with, *L. hopkinsi*.

## PLATYGASTER Latreille

- P. anormis** Brues. Bull. Wisc. Nat. Hist. Soc., 1910, 8: 49. Albany, type locality.
- P. aphidis** Ashm. Bull. U.S. Nat. Mus., 1893, 45: 325. Richfield Sps. (type); reared from an aphid on *Chenopodium album*.
- P. error** Fitch. Sixth Rep. N.Y. State Ent., p. 76. Branchport, from the clover midge, *Dasyneura leguminicola* (Lint.), also a parasite of the wheat midge, *Thecodiplosis mosellana* Gahan.
- P. pallida** Fouts. Proc. Ent. Soc. Wash., 1925, 27: 148. McLean Bogs, May 16, *Leon* (holotype).
- P. herrickii** Pck. Third Rep. U.S. Ent. Comm., p. 220. Hilton, Fancher, Knowlesville, Waterport, Sanborn, Cy (Myers&Hill).
- P. hiemalis** Fbs. Psyche, 1888, 5: 39. Evans Mills, Theresa, *McConnell* (Hill); Albion, *McConnell*, Newfane, Lima, Cy (Hill); Stafford, Berne, Cy (Hill).
- P. salicicola** (Ashm.). Bull. U.S. Nat. Mus., 1893, 45: 305. Brighton (Felt), bred from the European willow gall-midge, *Rhabdophaga salicis* Schrank (Cecidomyiidae).
- P. leguminicolae** Fouts. Proc. Ent. Soc. Wash., 1920, 22: 69. Ithaca, *Wehrle* (Fouts), from the clover midge, *Dasyneura leguminicola* Lintner.
- P. vernalis** (Myers). Proc. U.S. Nat. Mus., 1917, 53: 255. Generally distributed in central and western NY south of the Mohawk Val. and in the Hudson R. Val. north of Fishkill. The following definite records have been supplied by W. R. McConnell, P. R. Myers, C. C. Hill, and H. D. Smith, of the Hessian Fly Laboratory of the U.S. Bur. Ent., based largely on material supplied them by C. R. Crosby: Marion, Elbridge, Camillus, Borodino, Williamson, Sodus, Sodus Pt., Wolcott, Rose, Palmyra, Fruitland, Clyde, W. Walworth, Walworth, W. Henrietta, Spencerport, Scottsville, Rush, N. Greece, N. Cambric Center,



Mumford, Mendon, Macedon Center, Hilton, Hamlin, Fairport, Charlotte, Chili, Churchville, Brockport, Fancher, Albion, Kendall, Orleans, Holley, Knowlesville, Waterport, Pavilion, Medina, LeRoy, Indian Falls, Honeoye Falls, Griswold, Geneseo, Newfane, Alden, Lockport, Lima, Alexander, Batavia, Bergen, Corfu, Indian Falls, E. Aurora, Ashantee, Canawaugus, E. Avon, York, Silver Sps., Geneva, Manchester, Victor, Canandaigua, Flint, Cayuga, Auburn, Skaneateles, Skaneateles Falls, Waterloo, Ithaca, Lodi, Niobe, Covert, Blockville, Romulus, Waterloo, Berne, Brunswick, Wallkill, Highland, Rhinebeck, and Fishkill. Host: the Hessian fly, *Phytophaga destructor* Say.

**P. rubi** (Ashm.). Bull. U.S. Nat. Mus., 1893, 45:315. Ithaca, bred from a cecidomyiid gall on blackberry (Brues-CU).

**P. semiglaber** Gir. Proc. U.S. Nat. Mus., 1920, 58:177. Albany, type locality; from *Rhopalomyia hirtipes* O.S.

#### FAMILY PELECINIDAE

##### PELECINUS Latreille

**P. polyturator** Drury. New Russia, Aug 8 (Bdy-CU); Otto, Potsdam, Manlius (Bdy-CU); Oswego, Sep 7, *JGLindsey* (Lint-NYS); Hamburg; Ithaca, Sep, *Guerlac*; McLean, Aug 19-30 (Bdy-CU); Albany, Aug (NYS); Coeymans, *EBSm* (Lint-NYS); New Riverside (CU); L. George, *Zab* (AM); Hague, West Farms (AM); Huguenot, Tomkins Cove (AM); **LI**: Flatbush, Fishers I. (AM). Common, probably in all parts of the State (Bdy).

#### FAMILY CYNIPIDAE

Compiled by L. H. WELD

##### SUBFAMILY IBALIINAE

(Members of this subfamily are parasites on horntails.)

##### IBALIA Latreille

**I. ensiger** Nort. Oswego, JI 22.

**I. maculipennis** Hald. Batavia; Norton's Landing, Cayuga L.; Ithaca; Albany, Je 4, *SCBishop* (Bdy-NYS); Poughkeepsie, Je 1 (Bdy-NYS); Port Chester, Sep 24 (Bdy-NYS); **LI**, Je.

##### SUBFAMILY ANACHARITINAE

(Species of this and the three following subfamilies—Aspicerinae, Figitinae, and Eucoilinae—are parasites of dipterous puparia.)

##### ANACHARIS Dalman

**A. marginata** Prov. Ellis; Slaterville.

##### XYALASPIS Hartig

**X. flavipes** Ashm. Manlius, Aug 19 (Weld-CU).

SUBFAMILY **ASPICERINAE****CALLASPIDIA** Dahlbom

- C. provancheri** Ashm. Oswego, Je; Rochester, J1 7; Ithaca, Aug 7, Sep 13 (Weld); Caroline to Harford, Je 15; L. George, Aug 22.

SUBFAMILY **FIGITINAE****FIGITES** Latreille

- F. floridanus** Ashm. Norton's Landing, Cayuga L., *SmHH* (Weld); Ithaca, Je 26.

SUBFAMILY **EUCOILINAE****COTHONASPIS** Hartig

(Subgenus **COTHONASPIS** Hartig)

- C. rapae** (West.). Geneva; Medina; Carlton; **LI**. A parasite of the cabbage root-maggot.

**PSILODORA** Foerster

- P. impatiens** (Say). Oswego, Aug 17.

**KLEIDOTOMA** Westwood

- K. avenae** (Fitch). "NY" (type). From *Aphis avenae* Fab.

- K. marginata** (Gill.). Spencer L., Je 30.

**EUCOILIDEA** Ashmead

- E. canadensis** Ashm. Oswego, J1 1; **LI**.

SUBFAMILY **CHARIPINAE**

(Species of this subfamily are secondary parasites of plant lice.)

**CHARIPS** Haliday

(Subgenus **CHARIPS** Haliday)

- C. brassicae** (Ashm.). Medina; Carlton; Ithaca; Groton. From cabbage aphid.

**ALLOXYSTA** Foerster

(Subgenus **ALLOXYSTA** Foerster)

- A. tritici** (Fitch). "NY" (type). Probably from grain aphid.

SUBFAMILY **CYNIPINAE**

(Members of this subfamily are producers of galls on plants or areinquilines in these galls.)

## GALL-MAKERS

## NEUROTERUS Hartig

- N. batatus** (Fitch). OAK POTATO GALL. Hemlock L.; Rochester (Felt); Ithaca; Albany; Easton Hills (Felt); **SI**; **LI**: Flatbush; Southold. Galls on white oak.
- N. distortus** Bass. "NY" (Bt). Galls on swamp white oak.
- N. exiguus** Bass. "NY" (Bt). Galls on post oak.
- N. floccosus** (Bass.). OAK FLAKE GALL. Nyack; NYC; **LI**: Manorville. Galls on white oak.
- N. irregularis** (O.S.). "NY" (Bt.). Galls on post oak.
- N. majalis** (Bass.). Ithaca; **LI**: Southold; E. Hampton. Galls on white oak.
- N. minutus** (Bass.). "NY" (Bt.). Galls on white oak.
- N. niger** Gill. Ithaca; NYC; **LI**: Glen Cove. Galls on white oak.
- N. noxiosus** (Bass.). NOXIOUS OAK GALL. Medina; Geneva; Albany; Spring Val.; Mt. Vernon; **SI**; **LI**: Greenport. Galls on swamp white oak.
- N. pallidus** Bass. "NY" (Bt). Galls on staminate flowers of swamp white oak.
- N. pallipes** Bass. "NY" (Bt.). Galls on white oak.
- N. papillosus** Bt. OAK BLISTER GALL. NYC (Bt). Galls on swamp white oak.
- N. saltarius** Weld. EASTERN JUMPING NEUROTERUS GALL. Medina. Galls on bur oak.
- N. tectus** Bass. "NY" (Bt). Galls on scrub chestnut oak.
- N. umbilicatus** Bass. Ithaca; Hudson Falls (Felt); Albany; Mt. Kisco (Felt); NYC; **LI**: Sea Cliff (Felt). Galls on swamp white oak.
- N. verrucarum** (O.S.). "NY" (Bt). Galls on post oak.
- N. vesicula** (Bass.). SOFT OAK-BUD GALL. Nyack. Galls on white, bur, and swamp white oak.

## DIPLOLEPIS Geoffroy

*(Dryophanta Foerster)*

- D. centricola** (O.S.). West Farms; **LI**: Farmingdale. Galls on post oak.
- D. cinereae** (Ashm.) (*saccularius* Bass.). Medina; **LI**: E. Hampton. Galls on red and scarlet oak.
- D. clarkei** (Bass.). "NY" (Bt). Galls on white oak.
- D. erinacei** (Walsh). OAK HEDGEHOG GALL. Buffalo; Waterport; Penn Yan; Ithaca (CU); Syracuse; Albany; NYC; **SI**; **LI**: Southold. The early spring bud-scale galls of the sexual generation have been taken at Ithaca. Galls on white oak.
- D. gemula** (Bass.). BRITTLE BUD-GALL. NYC. Galls on white oak.
- D. ignota** (Bass.). "NY" (Bt). Galls on swamp white oak.
- D. notha** (O.S.). NYC; **LI**: E. Hampton. Galls on scarlet, red, and pin oak.
- D. pallipes** (Bass.). "NY" (Bt). Galls on white oak.
- D. palustris** (O.S.). SUCCULENT OAK GALL. Hudson Falls; Ithaca; Nyack; West Farms; NYC; **LI**: Cypress Hills; Southold; E. Hampton. Galls on red, scarlet, black, scrub black, pin, willow, and blackjack oak.
- D. pedunculata** (Bass.). **LI**: E. Hampton. Galls on scarlet oak.
- D. polita** (Bass.). POLISHED OAK GALL. **LI**: Southold. Galls on post oak.

## DISHOLCASPIS Dalla Torre and Kieffer

- D. globulus** (Fitch). ROUND BULLET GALL. Syracuse; Indian Falls; Eden; Hemlock L.; Canandaigua; Ithaca; Nyack; West Farms; **SI**; **LI**: Flatbush; Manorville; Southold; E. Hampton; Orient. Galls on white, chestnut, and scrub chestnut oak.
- D. globosa** Weld. Ithaca; Bartow. Galls underground on white oak.
- D. mamma** (Walsh). POINTED BULLET GALL. Ithaca; Karner; West Farms; **SI**. Galls on bur and swamp white oak.

## DRYOCOSMUS Giraud

- D. decidua** (Bt.). DECIDUOUS OAK GALL. **LI**: Riverhead. Galls on red, black, and scrub black oak.
- D. floridensis** (Bt.) (*peltatus* Wells and Metcalf). ROSETTE GALL. **LI**: Flatbush. Galls on blackjack and pin oak.
- D. imbricariae** (Ashm.) (*fasciatus* Bass.). BANDED BULLET GALL. Bronxville; **SI**; **LI**: Riverhead, Flanders. Galls on scrub black and blackjack oak.
- D. piperoides** (Bass.). Medina; Canandaigua; Ithaca. Galls on red oak.
- D. rileyi** (Ashm.). **LI**: Riverhead. Galls on red oak.

## TRIGONASPIS Hartig

- T. radicola** (Ashm.). FLESHY OAK FIG ROOT-GALL. NYC; **LI**: Flatbush. Galls on white oak.

## BIORHIZA Westwood

- B. rubina** Gill. Syracuse; Medina. Galls on white oak.

## XANTHOTERAS Ashmead

- X. forticorne** (Walsh). OAK FIG GALL. Ithaca; Karner; Albany; West Farms; Nyack; **SI**; **LI**: Flatbush; Riverhead; Southold. Galls on white oak.

## XYSTOTERAS Ashmead

- X. nigrum** (Fitch). Albany. Galls on white oak.
- X. poculum** Weld. OAK SPANGLE GALL. Hemlock L.; Ithaca. Galls on white oak.

## ZOPHEROTERAS Ashmead

- Z. compressum** (Gill.). Katonah; **LI**. Galls on scarlet oak.
- Z. hubbardi** (Ashm.) (*Parateras*). **LI**: Bellmore. Gall unknown.

## ACRASPIS Mayr

- A. hirta** (Bass.). Ithaca; Storm King; West Pt.; High Bridge; NYC. Galls on chestnut oak.
- A. macrocarpae** Bass. JEWEL OAK GALL. St. Lawrence Co; Medina; **LI**: Manorville; Farmingdale. Galls on bur oak.

- A. pezomachoides** (O.S.). OAK PEA GALL. Syracuse; Albany; Nyack; West Farms; **LI**: Flatbush; Manorville; Riverhead; Southold. Galls on white oak.
- A. prinoides** (Bt.). SPINY OAK GALL. Oriskany Falls; **SI**. Galls on scrub chestnut oak.
- A. villosa** Gill. HAIRY OAK GALL. Medina; Seneca L.; Ithaca. Galls on bur oak.

## PHILONIX Fitch

- P. fulvicollis** Fitch. "NY" (Fitch). Gall unknown.
- P. nigra** (Gill.). Ithaca; NYC; **LI**: Riverhead. Galls on white and bur oak.
- P. nigricollis** Fitch. "NY" (Fitch). Gall unknown.

## CYNIPS Linnaeus

- C. dimorphus** Bt. Ithaca; **LI**. Galls on white and bur oak.
- C. strobilana** O.S. PINE-CONE OAK GALL. Ithaca; Albany; Mt. Vernon; Bronxville; NYC; **SI**. Galls on swamp white oak.
- C. weldi** Bt. Syracuse; Ithaca; **LI**: Riverhead. Galls on white oak.

## ANDRICUS Hartig

- A. chinquapin** (Fitch) (*fusiformis* O.S., *capsula* Bass.). OAK CAPSULE GALL. Ithaca; NYC; **SI**; **LI**: Farmingdale; E. Hampton. Galls on scrub chestnut, swamp white, and white oak.
- A. coronus** Bt. NYC, Bronx Pk. Galls on pin oak.
- A. excavatus** Ashm. Hudson Falls. Galls on black oak.
- A. flocci** (Walsh). OAK WOOL GALL. Genoa; Canandaigua (Felt); Ithaca; Troy (Felt); NYC (Bt); **LI**: Cold Sp. Harb. (Felt); Riverhead. Galls on white oak.
- A. osten sackenii** (Bass.). Ithaca; **LI**: Farmingdale; E. Hampton. Galls on scarlet oak.
- A. pattoni** (Bass.). **SI**; **LI**: Pinelawn. Galls on post oak.
- A. petiolicola** (Bass.). OAK PETIOLE GALL. Medina; Watkins Glen; Ithaca; Albany; Hudson Falls; Storm King; West Farms; Scarsdale (Felt); **SI**; **LI**: Cold Sp. Harb. (Felt); Ravenswood; Farmingdale; Manorville; Southold; E. Hampton. Galls on swamp white, white, bur, chestnut, scrub chestnut, and post oak.
- A. rugulosus** Bt. NYC. Galls on red and black oak.
- A. singularis** (Bass.). SMALL OAK APPLE. Medina; Ithaca; Albany; Shushan; Katonah; **SI**; **LI**: Cold Sp. Harb. (Felt). Galls on red oak.
- A. utricula** (Bass.). Ithaca; **LI**: Orient. Galls on white and post oak.

## CALLIRHYTIS Foerster

- C. balanoides** Weld. Ithaca. Gall on immature acorn of black oak.
- C. bignelli** (D.T.) (*punctata* Ashm., *montana* Bt.). Nyack. Gall unknown.
- C. clavula** (O.S.). OAK CLUB GALL. Syracuse; Indian Falls; Hemlock L.; Albany; White Plains; Hudson Falls; NYC; **SI**; **LI**: Farmingdale. Galls on white oak.



- C. cornigera** (O.S.). HORNED KNOT GALL. Ithaca; Nyack; West Farms; NYC; **SI**; **LI**: Southold; Gardiners I. Galls on red, pin, shingle, and scrub black oak.
- C. elliptica** Weld. Nyack. Root gall on white oak.
- C. flavohirta** (Bt.). Medina; Ithaca. Galls on swamp white and bur oak.
- C. fructuosa** Weld. Ithaca. Galls inside black-oak acorns.
- C. futilis** (O.S.). OAK WART GALL. Medina; Indian Falls; Ithaca; Hudson Falls; NYC; **LI**: Manorville; Farmingdale; Southold. The alternating agamic generation in the thick bark underground has been taken at Ithaca and Indian Falls. Galls on white oak.
- C. gallaestriatae** Weld. NYC. Galls on red oak.
- C. gemmaria** (Ashm.). Ithaca; **LI**: Flatbush; Pinelawn. Galls on red oak.
- C. gemmiformis** (Bt.). NYC: Woodlawn. Galls on white oak.
- C. lanata** (Gill.) (*Dryophanta*). Medina; Hemlock L.; **LI**: Riverhead. Galls on red, scarlet, black, and scrub black oak.
- C. lustrans** (Bt.) (*impositus* Bt.). NYC. Galls on post oak.
- C. modesta** (O.S.) (*papula* Bass.). Medina; NYC; **LI**: Riverhead. Galls on red, black, and scrub black oak.
- C. operator** (O.S.). WOOLLY FLOWER GALL. Ithaca; Schenectady; Albany; **SI**; **LI**: Massapequa; Riverhead; E. Hampton. Galls on red, scarlet, black, and scrub black oak. The acorn pip gall of the alternating agamic generation has been taken at Medina, Ithaca, and Riverhead.
- C. phellos** (O.S.) (*similis* Bass.). SCRUB-OAK CLUB GALL. **SI**; **LI**: Farmingdale; Riverhead; Flanders; E. Hampton. Galls on scrub black and willow oak.
- C. pigra** (Bass.). OAK MID-RIB GALL. Ithaca; NYC; Galls on black and scarlet oak.
- C. pulchra** Bass. SMOOTH FLOWER GALL. Poughkeepsie; **LI**: Flatbush. Galls on red and black oak.
- C. punctata** (Bass.). OAK KNOT GALL. Watkins; Loudonville; W. Albany; Mt. Vernon; **SI**; **LI**: Cold Sp. Harb.; Southold. Galls on red, scarlet, black, scrub black, and blackjack oak.
- C. rugosa** (Ashm.) (*Andricus*). **LI**: E. Hampton. Galls on red oak.
- C. scitula** (Bass.) (*Andricus*). Ithaca; New Rochelle; Nyack; **LI**: Flatbush. Galls on red and black oak.
- C. seminator** (Harr.). WOOL SOWER. Rochester; Indian Falls; Ithaca; Glens Falls; Hudson Falls; Cheviot; W. Nyack; NYC; **LI**: Farmingdale; Southold; E. Hampton. Galls on white oak.
- C. seminosa** Bass. Peekskill; Nyack; NYC; **SI**. Galls on red oak.
- C. tumifica** (O.S.). MID-RIB TUMOR GALL. Ithaca; Dobbs Ferry; NYC; **LI**: Farmingdale. Galls on red and black oak.

#### AMPHIBOLIPS Reinhard

- A. coelebs** (O.S.). SMALLER SPINDLE GALL. **SI**; **LI**: Yaphank; Riverhead; E. Hampton. Galls on red and scarlet oak.
- A. cookii** Gill. Medina; Atwater; Ithaca; West Point; Katonah. Galls on red and black oak.

- A. confluentus** (Harr.) (*spongifica* O.S.). SPONGY OAK APPLE. Waterport; Ithaca; New Baltimore; Hudson Falls; West Farms; White Plains; NYC; **SI**; **LI**: New Lots; Flatbush; Farmingdale; Cold Sp. Harb. (Felt); Manorville; Riverhead; Southold; E. Hampton. Galls on red and black oak.
- A. ilicifoliae** (Bass.). LARGER OAK SPINDLE GALL. **SI**; **LI**: Cold Sp. Harb.; Riverhead; Flanders; Southold; E. Hampton. Galls on scrub black oak.
- A. inanis** (O.S.). LARGER EMPTY OAK APPLE. Medina; Ithaca; Hudson Falls; **SI**. Galls on red oak.
- A. nubilipennis** (Harr.). TRANSLUCENT OAK GALL. Indian Falls; Ithaca; **LI**: Farmingdale; E. Hampton. Galls on red, black, and scarlet oak.
- A. prunus** (Walsh). ACORN PLUM GALL. Lowville; Ithaca; **SI**; **LI**: Moriches. Galls on red oak.
- A. tinctoriae** Ashm. KEELED OAK APPLE. Katonah; **LI**: Port Jefferson. Galls on scarlet and black oak.

## DIASTROPHUS Hartig

- D. bassetti** Bt. Bronxville; West Farms; **SI**. Galls on roots of dewberry.
- D. cuscuthaeformis** O.S. BLACKBERRY SEED GALL. Newport; Salamanca; Ithaca; West Farms; **SI**; **LI**: Flatbush; Southold. Galls on stem of blackberry.
- D. fragariae** Bt. CYLINDRICAL STRAWBERRY GALL. Ithaca; NYC. Galls on petiole of wild strawberry.
- D. nebulosus** (O.S.). GOUTY BLACKBERRY GALL. Waterford; Albany; Poughkeepsie; White Plains; Mt. Vernon; Nyack; West Farms; **SI**: Ft. Wadsworth, on a cultivated climbing blackberry (Ds); **LI**: Farmingdale; Southold. Galls on wild blackberry.
- D. niger** Bass. Ithaca; **SI**; **LI**: Southold. Galls on Potentilla.
- D. radicum** Bass. BLACKBERRY ROOT GALL. NYC (Bt); **LI**: Amagansett (Ds); Pinelawn. Galls on wild blackberry.
- D. turgidus** Bass. Ithaca. Galls on stems of wild raspberry.

## AYLAX Hartig

- A. glechomae** (L.). GROUND IVY GALL. Medina; Ithaca; Albany (Felt); **LI**. Galls on *Nepeta hederacea*. Introduced from Europe.
- A. taraxaci** (Ashm.). Medina; Hudson Falls. Galls on dandelion. Introduced from Europe.

## AULACIDEA Ashmead

- A. harringtoni** (Ashm.) (*bicolor* Gill., *mulgediicola* Ashm., *cavicola* Ashm.). Katonah. Galls on Lactuca.
- A. nabali** (Brodie). Nyack. Galls on Prenanthes.
- A. podagrae** (Bass.). Ithaca; **SI**. Galls on Lactuca.
- A. tumida** (Bass.) (*sonchicola* Ashm.). LETTUCE TUMOR GALL. Ithaca; Albany; E. Schodack; Nassau; Waldorf; Nyack; West Farms; NYC; **LI**: Southold; Orient (Felt). Galls on Lactuca.

## GONASPIS Ashmead

- G. potentillae** (Bass.). CINQUEFOIL AXIL GALL. Norton's Landing, Cayuga L. (Weld-CU); Ithaca; E. Jewett; West Farms; NYC; **SI**; **LI**: Astoria; Southold; Gardiners I. Galls on Potentilla.

## RHODITES Hartig

(Members of this genus produce galls on roses.)

- R. bicolor** (Harr.). SPINY ROSE GALL. Medina; Canandaigua; Ithaca; Albany; Shushan; Nyack; Hudson Falls; West Farms; NYC, Central Pk., Inwood; **SI**; **LI**: Hempstead Plains; Bellport; Southold; E. Hampton.
- R. dichlocerus** (Harr.). LONG ROSE GALL. Medina; Canandaigua; Hudson Falls; Nassau; Niverville; Nyack; West Farms; **SI**; **LI**: Flatbush; Wyandanch; Orient.
- R. gracilis** Ashm. REGAL ROSE GALL. Canandaigua; Ithaca.
- R. ignotus** O.S. MEALY ROSE GALL. Rochester; Albany; West Farms; NYC, Inwood (Ds); **SI**; **LI**: Richmond Hill; Southold; Shelter I.; Wading R. (Ds); Orient.
- R. nebulosus** Bass. NYC; **SI**.
- R. radicum** O.S. ROSE ROOT GALL. Albany; Nyack; NYC; **SI**. On *Rosa carolina*.
- R. rosae** (L.). MOSSY ROSE GALL, or BEDEGUAR. Ogdensburg; Medina; Albion; Rochester; Honeoye Falls; Batavia; Ithaca; Taughannock; L. George (Felt); E. Jewett (Ds); Athens; West Farms; Nyack; NYC; **SI**. On Sweetbrier. Introduced from Europe.
- R. rosaefolii** Ckll. ROSE LENTIL GALL. Medina; Canandaigua; NYC.
- R. semipiceus** (Harr.) (*fulgens* Gill.). Ithaca; Bronxville; NYC; **SI**; **LI**: Flatbush.
- R. vernus** (O.S.). KNOTTY ROSE GALL. Hudson Falls; **SI**; **LI**: Southold.

## GUESTS, OR INQUILINES

## PERICLISTUS Foerster

(Members of this genus have been reared from galls on roses.)

- P. piratus** (O.S.). Nyack; **SI**.
- P. silvestris** (O.S.). NYC, Bronx Pk.

## SYNERGUS Hartig

(Members of this genus have been reared from galls on oak.)

- S. campanula** O.S. Buffalo; Nyack.
- S. dimorphus** O.S. **SI**.
- S. erinacei** Gill. Buffalo; Ithaca, Feb, Ap 3, Jl 1-Aug 8 (Weld).
- S. lana** (Fitch). "NY" (Fitch).
- S. lignicola** (O.S.). Nyack.
- S. oneratus** (Harr.). Ithaca.

## CEROPTRES Hartig

(Members of this genus have been reared from galls on oak.)

- C. arbos** (Fitch). "NY" (Fitch). Bred from gall of *Callirhytis clavula* (O.S.).
- C. ficus** (Fitch). Axton, Je; **SI**. Bred from gall of *Xanthoteras forticorne* (Walsh).
- C. petiolicola** (O.S.). Nyack; **SI**. Bred from gall of *Andricus petiolicola* (Bass.).
- C. pisum** (Fitch). "NY" (Fitch). Bred from gall of *Acraspis pezomachoides* (O.S.).
- C. tuber** (Fitch). Nyack. Bred from gall of *Callirhytis clavula* (O.S.).

## Superfamily CHALCIDOIDEA

Compiled by A. B. GAHAN, C. R. CROSBY, and M. D. LEONARD

## FAMILY CALLIMOMIDAE

(Torymidae)

## CALLIMOME Spinola

(Torymus Dalman)

**C. aea** (Wlk.). "NY" (Wlk.).

## DITROPINOTUS Crawford

**D. aureoviridis** Crawford. Waterloo (PhillipsWJ); Victor, Clifton (CU). Carlton (Crawf-CU); Penn Yan (PhillipsWJ); Middletown (Cy). Bred from larvae in wheat.

## ERIDONTOMERUS Crawford

**E. isosomatis** (Rly.) (*primus* Crawford). Geneva (PhillipsWJ); Victor, Ithaca, (Cy-CU); Elmira (Crawf-CU); Albany (Cy-CU). Bred from larvae in timothy.

## MEGASTIGMUS Dalman

**M. aculeatus** (Swederus). Ithaca (Cy-CU), reared from rose seeds.**M. brevicaudis** Ratzeburg. Oswego, Weedsport (Cy); Jamesville, Cy-CU); Wayland (Cy); Ithaca (Cy-CU). All reared from seeds of mountain ash.**M. laricis** Marcovitch. Ithaca (types), reared from seeds of larch.**M. nigrovariegatus** Ashm. Wellsville, Ithaca, White Church, Stuyvesant Falls (Cy-CU), reared from rose seeds.

## MONODONTOMERUS Westwood

**M. dentipes** (Boheman). LI: Farmingdale, JI, reared from cocoons of *Lophyrus* sp. on pine (Gahan).

## ORMYRUS Westwood

**O. ventricosus** Ashm. Watkins, Ithaca (CU). Bred from galls of *Diastrophus nebulosus* O.S. and *Diplolepis erinacei* (Walsh).

## SYNTOMASPIS Foerster

**S. druparum** (Boheman). APPLE SEED CHALCIS. Clinton Co (Cy); Cranberry Cr., Ho'nby, Geneva, Monterey (Cy); Rochester, Penn Yan, Ithaca (Cy-CU); Kingston (Cy); Red Hook and Poughkeepsie (CU Econ). Lives only in apple seeds.**S. racemariae** Ashm. SI, *Schott* (Gahan).**S. thalassinus** Cy. Cranberry Cr., Lowville, Remsen, Victor, Byron, Bluff Pt., Penn Yan, Elmira (Cy); Taughannock Falls (Cy-CU); Ithaca (Cy); Wilseyville (Cy-CU); McLean, Cortland, Amsterdam, Kingston (Cy). From timothy and orchard grass.

WEBSTERELLUS Ashmead

**W. harrisi** (Fitch). "NY" (Fitch).

FAMILY PERILAMPIDAE

PERILAMPUS Latreille

**P. subcarinatus** Crawl. Norton's Landing, Cayuga L., *SmHH* (CU).

FAMILY CHALCIDIDAE

BRACHYMERIA Westwood

**B. compsilurae** (Cwfd.). **LI**: Pinelawn, Aug 24, *Schott* (Gahan).

**B. ovata** (Say). Axton, *M&H* (Ashm-CU); Ithaca (Ashm-CU), from *Vanessa antiopa*.

DIPLODONTIA Ashmead

**D. secunda** Gir. **LI** (Gir).

LEUCOSPIS Fabricius

**L. affinis** Say. Crosby Landing, L. Keuka, Je, Cy, Taughannock (C. Weld-CU); common at Ithaca (Bdy); McLean, Sep 7, 1924, *Sib* (Bdy-CU); Potsdam, Je (C. Weld-CU); **LI**: Central Pk., Je (Schott).

PHASGONOPHORA Westwood

**P. sulcata** Westw. Syracuse (B&S), from dead hickory; Crittenden (B&S), from larch; Ithaca (CU), from *Agrilus axius* Gory. A well-known parasite of flat-head borers.

SPILOCHALCIS Ashmead

**S. mariae** (Rly.). **SI** (Ds); **LI**: Brooklyn. Parasite of *Samia cecropia* Dr. and the bag-worm, *Thyridopteryx ephemeraeformis* Steph.

**S. albifrons** (Walsh). Oswego; Medina.

TRIGONURA Sichel

**T. hicoriae** Roh. Syracuse, *B&L* (type-US). Bred from hickory, and presumably from *Chrysobothris femorata* (Oliv.) and *C. sexsignata* (Say).

FAMILY EURYTOMIDAE

BRUCHOPHAGUS Ashmead

**B. funebris** (How.). CLOVER SEED CHALCID. Probably rather generally distributed throughout the State. Ithaca, Harford (Cy-CU).

DECATOMA Spinola

**D. amsterdamensis** Gir. Geneva, Penn Yan (PhillipsWJ), reared from Harmolita material.



- D. flava* Ashm. Ithaca (Cy-CU), from galls of *Diplolepis erinacei* (Walsh).  
*D. nubilistigma* Walsh. Ithaca, J1 (Cy-CU).  
*D. querci-lanae-dorsalis* (Fitch). Ithaca, J1-Aug (Cy-CU). Specimens in CU bred from galls of *Diplolepis erinacei* (Walsh) and *Andricus petiolicola* (Bass.).  
*D. varians* Walsh. Ithaca (Cy-CU), from galls of *Diplolepis erinacei* (Walsh).

## EURYTOMA Illiger

- E. auriceps* Walsh. Ithaca (Cy-CU). Bred from galls of *Diplolepis erinacei* (Walsh).  
*E. bolteri* Rly. Ithaca, Mar, *WAS*tocking,*Jr* (Ashm-CU), bred from gall on goldenrod.  
*E. bolteri* var. *parva* W. J. Phillips. Waterloo (Gir).  
*E. gigantea* Walsh. Ithaca, Mar 11, 1898, *WAS*tocking,*Jr* (Ashm-CU), bred from gall on goldenrod.  
*E. juniperinus* Marcovitch. Ithaca (types), reared from juniper berries.  
*E. lanulae* Fitch. "NY" (Fitch).  
*E. orchidearum* (Westw.) (*Isosoma*). THE ORCHID FLY. Occasionally infesting greenhouse orchids. Rochester; West Nyack (CU); LI: College Pt. (Leon).  
*E. pater* Gir. Penn Yan, Auburn, Waterloo (Gir).  
*E. querci-globuli* (Fitch). "NY" (Fitch).  
*E. querci-pisi* (Fitch). "NY" (Fitch).  
*E. rhois* Cy. Ithaca (types-CU), reared from seeds of sumac.  
*E. studiosa* Say. Ithaca (Cy-CU). Bred from galls of *Diplolepis erinacei* (Walsh).

## EURYTOMOCHARIS Ashmead

- E. triodiae* How. Kingston (Cy).

## EVOXYSOMA Ashmead

- E. vitis* (Saunders). Ithaca, Cy (How-CU), reared from grape seeds.

HARMOLITA Motschulsky<sup>164</sup>

(The species of this genus are all phytophagous, either occupying the center of the stem, or causing warty or gall-like swellings on the stem, of definite species of grasses.)

- H. agropyrophila* P. & E. Lowville, Geneva, Bluff Pt., Albany, Amsterdam (PhillipsWJ-CU). Lives only in species of quack grass, *Agropyron*. Lives in the center of the stem.  
*H. albomaculata* (Ashm). Richland (Cy); Carthage (PhillipsWJ-CU); Lowville (Cy); Cranberry Cr. (PhillipsWJ-CU); Remsen; Victor; Bluff Pt.; Penn Yan (Cy); Elmira (PhillipsWJ-CU); Ithaca (Cy); Cortland (PhillipsWJ-CU); Oneonta (PhillipsWJ-CU); Albany, Kingston (Cy). Lives only in timothy, and inhabits the center of the stem. Probably occurs wherever timothy is grown.

<sup>164</sup> A revision of the chalcid-flies of the genus *Harmolita* of America, north of Mexico. By W. J. Phillips and W. T. Emery. Proc. U.S. Nat. Mus., 1919, 55: 433-471.

- H. atlantica** P. & E. Auburn (Cy-CU); Weedsport; Waterloo (PhillipsWJ); Geneva (Phillips WJ-CU); Canastota; Sea Breeze; Byron (Cy); Bluff Pt. (Phillips WJ-CU); Penn Yan (type-OS); Taughannock Falls; Ithaca (Cy); Amsterdam (PhillipsWJ-CU). Breeds only in quack grass, *Agropyron*, making inconspicuous galls, or occasionally galls in the sheath that surrounds the head. Males are rare.
- H. dactylicola** P. & E. Penn Yan, Geneseo, Waterloo, Geneva (P&E); Ithaca and Hancock (Cy). Breeds only in orchard grass, and inhabits the center of the stem. Males normally occur.
- H. elymi** (French). Sea Breeze, Middleport, Wellsville, Ithaca, Avoca, Port Jervis, Tuxedo Pk. (Cy). Lives only in spurs of *Elymus*, probably wherever it grows. Occupies the center of the stem.
- H. elymicola** P. & E. Cranberry Cr., Ithaca, Weedsport, Taughannock Falls, Tuxedo Pk. (Cy). Breeds only in species of *Elymus*, making very conspicuous galls at the second or third internode from the base of the plant. Males regularly occur.
- H. festucae** P. & E. Watertown, Geneseo, Syracuse, Geneva (PhillipsWJ). Breeds only in *Festuca*, making galls in the second to fourth internode from the base of the plants. Males rarely occur.
- H. grandis** (Rly.) form *minuta* (Rly.). WHEAT STRAW WORM. Victor (Cy). Lives only in wheat and is usually found wherever wheat is grown. Inhabits the center of the stem.
- H. hordei** (Harr.). BARLEY JOINT WORM. Watertown; Little Falls (PhillipsWJ); Syracuse (PhillipsWJ); Auburn (P&E). Breeds only in barley, making galls above the second to fourth nodes. Males rarely occur.
- H. maculata** (How.). Watertown, Little Falls, Syracuse, Geneva, Penn Yan, Ithaca (PhillipsWJ). Breeds only in cheat and other species of *Bromus*, inhabiting the center of the stem. Males regularly occur.
- H. phalaridis** P. & E. Ithaca, Hornby (Cy).
- H. tritici** (Fitch). WHEAT JOINT WORM. Axton, Je M&H (Ashm-CU); Evans Mills; Theresa; Vernon; Clifton; Carlton; Albion; Barre Center; Kent; Pt. Breeze; Wilson; Victor; Middleport; Byron; Elba; E. Bethany; Pavilion; Geneseo; Avon; Perry; Perry Center; Cuylerville; Canandaigua; Second Milo; Alpine; Sheridan; Bradford; Lodi; Ovid; Romulus; Ithaca; Newfield; Cayuta; Niverville; LaGrange (Cy-CU); **LI**: Miller's Place (Cy). Lives only in wheat; makes conspicuous galls, usually about the second or third internode from the base of the stem, though they may occur at every internode.
- H. vaginicola** (Doane). WHEAT-SHEATH GALL JOINT WORM. Evans Mills; Theresa; Vernon; Clifton; Carlton; Albion; Barre Center; Kent; Pt. Breeze; Wilson; Johnson Cr.; Victor; Middleport; Byron; Elba; E. Bethany; Pavilion; Geneseo; Avon; Perry; Perry Center; Cuylerville; Canandaigua (Cy); Crosby (PhillipsWJ-CU); Second Milo; Alpine; Sheridan; Bradford; Lodi; Ovid; Romulus; Newfield; Cayuta (Cy-CU); Ithaca (PhillipsWJ-CU); La Grange; Niverville (Cy); **LI**: Miller's Place (Cy). Breeds only in wheat, forming a conspicuous gall in the sheath surrounding the head of wheat. The head rarely grows out of the sheath or develops grain. Males never have been found.

#### PRODECATOMA Ashmead

- P. phytophaga** Cy. Taughannock Falls (Cy), reared from seeds of Virginia creeper.

## FAMILY ENCYRTIDAE

## ANABROLEPIS Timberlake

- A. zetterstedtii** (Westw.). Ithaca, *Griswold* (Gahan-CU), on *Lepidosaphes ulmi* (L.).

## COECIDENCYRTUS Ashmead

- C. ochraceipes** Gahan. Ithaca, in greenhouse, *Griswold* (Gahan-US), from *Diaspis boisduvalii* Sign. on *Cattleya* sp.

## APHYCUS Mayr

- A. rileyi** Timberlake. Ithaca (Sling), on *Lecanium corni* Bouché.

## ATROPATES Howard

- A. collinsi** How. LI: Brooklyn, Roslyn (Collins), on *Pulvinaria innumerabilis* Rath.

## BOTHRIOTHORAX Ratzeburg

- B. novaeboracensis** How. Richfield Sps., *Pergande* (How); McLean Bogs, Je, *Leon* (Gahan).

## CHEILONEURINUS Mercet

- C. microphagus** (Mayr.). Ithaca, *Griswold* (Mues-CU), from *Lepidosaphes ulmi* (L.).

## ENCYRTUS Latreille

- E. marylandicus** var. *alpinus* Gir. McLean, Aug 1 (Gahan-CU).

## APHIDENCYRTUS Ashmead

- A. inquisitor** (How.). Ithaca, in greenhouse, *Griswold* (Gahan-CU, US), from *Macrosiphum cornelli* Patch on geranium, and *Trialeurodes vaporariorum* (Westw.) on squash. A hyperparasite.

## COPIDOSOMA Ratzeburg

- C. gelechiae** How. Ithaca (Leiby). Host: *Gelechia gallaesolidaginis* Rly.  
**C. truncatellum** (Dalm.). Rye, Aug, oviposit in egg of *Autographa* sp., emerge from larva. 1732 adults have been reared from one host larva and presumably from one parasite egg (Bird).

## OOENCYRTUS Ashmead

- O. clisiocampae** (Ashm.). Ithaca; Spring Val.; Suffern; Tallman; White Plains, *CLLin* (Mues-CU); reared from egg of apple-tree tent-caterpillar.

## PSEUDENCYRTUS Ashmead

- P. cecidomyiae** (How.). Ithaca (Ashm).

**PSYLLEDONTUS** Crawford

**P. insidiosus** Crawf. Geneva (Parrott), from pear psylla.

**ZARHOPALUS** Ashmead

**Z. sheldoni** Ashm. L. Placid, *Sheldon* (Ashm).

**FAMILY SIGNIPHORIDAE**

**SIGNIPHORA** Ashmead

**S. coquilletti** Ashm. Ithaca, in greenhouse, *Griswold* (Gahan-CU, US), from *Diaspis boisduvalii* Sign. on orchid.

**FAMILY EUPELMIDAE**

**ANASTATUS** Motschulsky

**A. pearsalli** Ashm. **LI**: Brooklyn, bred by Pearsall as an egg parasite of *Smerinthus astylus* Dru.

**EUPELMUS** Dalman

**E. allynii** (French). Camillus; Ira (D. T. Ries); Waterloo (PhillipsWJ); Clifton (PhillipsWJ-CU); Victor; Brockport; Bergen (DTRies); Byron (PhillipsWJ-CU); Albion; Middleport; Wyoming; Mt. Morris; Penn Yan (PhillipsWJ); Newfield (DTRies); Ithaca (PhillipsWJ-CU); Owasco (DTRies). Reared from *Cephus pygmaeus* by D. T. Ries; and from larvae in orchard grass and timothy by Cy.

**METAPELMA** Westwood

**M. spectabilis** Westw. Syracuse (B&S); Batavia, *Kngt* (Cy-CU); Ithaca (Cy-CU); Ilion; Albany (Cy).

**FAMILY PTEROMALIDAE**

**ASAPHES** Walker

**A. americana** Gir. Ithaca, in greenhouse, *Griswold* (Gahan-CU, US), from *Macrosiphum cornelli* Patch on geranium, and from *Myzus persicae* Sulz. on *Chrysanthemum frutescens*.

**A. rufipes** Brues. Ithaca (Herrick and Hungate), on cabbage aphid.

**CYRTOGASTER** Walker

**C. liqueata** Ashm. Durlandville (FrostSW), from *Agromyza parvicornis* Loew.

**DIBRACHYS** Foerster

**D. boucheanus** (Ratz.). Ithaca, *CLLi*u (Mues-CU), from cocoons of *Apanteles clisiocampae* Ashm.; Glens Falls, *Jl* (Felt).

**EUPTEROMALUS** Kourdjumoff

**E. viridescens** (Walsh). Rye (Bird), from *Microplitis* cocoons.

## EUTELUS Walker

**E. onerati** (Fitch). "NY" (Fitch).

## HABROCYTUS Thomson

**H. dux** Gir. Ithaca, *CLLi* (Mues-CU), from *Hyposoter fugitivus* (Say).

**H. piercei** Crawl. Ithaca (Mues), from *Anthonomus nebulosus* Lec. (Curculionidae).

## HOMOPORUS Thomson

**H. chalcidiphagus** (W. & R.). Penn Yan (PhillipsWJ); Weedsport, Cy (PhillipsWJ-CU), Victor (Cy-CU), from larvae in wheat.

## HYOPTEROMALUS Ashmead

**H. tabacum** (Fitch). LI: Brooklyn, *Schott* (Gahan).

## LARIOPHAGUS Crawford

**L. distinguendus** (Foerst.). LI: Brooklyn, on bags of grain, *Schott* (Gahan).

## MERISUS Walker

**M. destructor** (Say). Ithaca (CU).

**M. febriculosus** Gir. Cranberry Cr.; Remsen; Geneva; Victor; Taughannock Falls; Ithaca (Cy-CU); Oneonta; Amsterdam; Albany, from timothy and Muhlenbergia.

## MORMONIELLA Ashmead

**M. brevicornis** Ashm. Ithaca (Cy), from *Protocalliphora avium* Shannon.

## PACHYNEURON Walker

**P. altiscuta** How. Ithaca.

**P. siphonophorae** (Ashm.) (*micans* How.). Ithaca (Heirick & Hungate), on cabbage aphids.

## PSYCHOPHAGUS Mayr

**P. omnivorus** (Wlk.). Ithaca, *CLLi* (Mues-CU), reared from pupae of apple-tree tent-caterpillar.

## PTEROMALUS Swederus

**P. puparum** (L.). Esperance; Schenectady.

**P. vanessae** How. Waterville (Gahan-CU), from pupae of *Polygonia interrogatoris* Fab.; ?Ithaca (CU), from pupae of *Aglais antiopa* L.

## RHAPHITELUS Walker

**R. maculatus** Wlk. Ithaca (Cy).

## FAMILY APHELINIDAE

## ABLERUS Howard

**A. clisiocampae** (Ashm.). Tallman; Spring Val.; Suffern, *CLLi* (Mues-CU), reared from eggs of apple-tree tent-caterpillar.



## APHELINUS Dalman

- A. diaspidis** How. Several counties (Hodgkiss & Parrott). Host: San José scale.  
**A. fuscipennis** How. Ithaca, *Griswold* (Gahan-CU), on *Lepidosaphes ulmi* (L.).  
 Several counties (Hodgkiss & Parrott), from San José scale.  
**A. jucundus** Gahan. Ithaca, in greenhouse, *Griswold* (Gahan-CU, US), from *Macrosiphum cornelli* Patch on geranium.  
**A. mali** (Hald.). Ithaca (Lundie), on *Eriosoma lanigera*.  
**A. mytilaspidis** LeB. Rochester (CU), from *Diaspis coerulea*; Ithaca, *Griswold* (Mues-CU), on *Lepidosaphes ulmi* (L.).  
**A. semiflavus** (How.). Ithaca, in greenhouse, *Griswold* (Gahan-CU, US), from *Francoa rosarum* (Kalt.), an aphid on rose.

## ENCARSIA Foerster

- E. formosa** Gahan. Ithaca, greenhouse, *Griswold* (Gahan-CU, US), from *Trialeurodes vaporariorum* (Westw.) on squash and Solanum.  
**E. pergandiella** How. Ithaca, greenhouse, *Griswold* (Gahan-CU, US), from *Trialeurodes vaporariorum* (Westw.) on squash.

## ASPIDIOTIPHAGUS Howard

- A. citrinus** (Crawf.). Ithaca, *Griswold* (Gahan-CU), on *Lepidosaphes ulmi* (L.).

## CENTRODORA Foerster

- C. speciosissimus** (Gir.). Brockport; Lyons. Reared from Hessian fly, *Cy* (Myers).

## COCCOPHAGUS Westwood

- C. fletcheri** How. Ithaca, *CLLiu* (Gahan-CU).  
**C. gossypariae** Gahan. Ithaca, May, July, *Griswold* (Gahan-CU, US), from *Gossyparia spuria* (Modeer) on American elm.  
**C. lecanii** (Fitch). Ithaca (How); **LI**: Flatbush, Roslyn (How); parasite on scale insects.

## PERISSOPTERUS Howard

- P. pulchellus** (How.). Several counties (Hodgkiss & Parrott). Host: San José scale.

## PROSPALTELLA Howard

- P. aurantii** (How.). Ithaca (How), parasitic on scale insects.

## FAMILY EULOPHIDAE

## APTEROLOPHUS Gahan

- A. pulchricornis** Gahan. Leeds (WMMann).

## CHRYSOCHARIS Foerster

- C. parksi** Crawf. Durlandville, from *Agromyza taxana* Mel., Pine I., from *Agromyza pusilla* Meig., and Tarrytown, from *Phytomyza obscura* Fall. (FrostSW).

## CHRYSOCHAROMYIA Girault

- C. elegantissima** Gir. Tarrytown (FrostSW), from *Phytomyza obscurella* Fall.

## CIRROSPILUS Westwood

- C. flavicinctus** Rly. Western NY (Lint), on *Bucculatrix pomifoliella* Clem.  
**C. ovisugosus** Cy. & Mat. Ithaca (types-CU), as an egg parasite of the four-lined leaf-bug, *Poecilopsus lineatus* (Fab.).

## CLOSTEROCERUS Westwood

- C. tricinctus** (Ashm.). Tarrytown (FrostSW), from *Phytomyza obscurella* Fall.

## COMEDO Schrank

- C. orgyiae** (Fitch.). THE GRAVE-STONE CHALCID. Ringwood, Ndm (Cy&Leon-CU); McLean, Aug 19 (Gahan-CU).

## DEROSTENUS Westwood

- D. salutaris** Cy. Rochester (Cy), from *Nepticula slingerlandella* Kf.

## DIAULINUS Schulz

- D. begini** (Ashm.). Pine I. (FrostSW), from *Agromyza pusilla* Meig.  
**D. pulchripes** Crawf. Pine I. (FrostSW), from *Agromyza posticata* Meig.  
**D. websteri** Crawf. Durlandville (FrostSW), from *Agromyza parvicornis* Loew; Tarrytown (FrostSW), from *Phytomyza obscurella* Fall.

## DIMMOCKIA Ashmead

- D. incongrua** (Ashm.). Ithaca, CLLiu (Mues-CU), from cocoons of *Apanteles clisiocampae* Ashm., also from *Psychophagus omnivorus* (Wlk) and *Tachina mella* Wlk. (?).

## ELACHERTUS Spinola

- E. benefactor** Crawf. Karner (Crawf), from *Rhyacionia comstockiana* Fern.

## PLEUROTROPIS Foerster

- P. benefica** Gahan. Honeoye Falls; Stafford; LeRoy; Bethany; Caledonia; Batavia; Canandaigua; Holcomb; Moravia; Newfield (DTRies); reared from *Cephus pygmaeus*.

## SECODELLA Girault

- S. argyresthiae** Crawf. Ithaca, from *Argyresthia alternatella* Zell. (Yponomeutidae).

## SYMPIESIS Foerster

- S. felti** Crawf. Hudson Falls (Felt), reared from *Agromyza melampyga* Loew; LI: Westbury, Ap (Felt), from *Phytomyza ilicis* Curt.  
**S. maculipes** Crawf. Geneva (BBFulton), from *Lithocolletes* sp.

**TETRASTICHUS** Haliday

- T. agrili** Crawford. Geneva, from *Agrilus sinuatus* (Oliv.).  
**T. asparagi** Crawford. **LI**: Riverhead (Russell & Johnson).  
**T. juniperi** (Crawford). Ithaca (Marcovitch), reared from juniper berries.  
**T. malacosomae** Gir. Ithaca, Spring Val., Suffern, Tallman, White Plains, *CLLiu* (Mues-CU), reared from eggs of apple-tree tent-caterpillar.  
**T. marcovitchi** (Crawford). Ithaca, *Marcovitch* (types), reared from juniper berries.  
**T. rapae** Wlk. Ithaca, *Mues* (Gahan-CU), from *Apanteles glomeratus* (L.).

FAMILY **TRICHOGRAMMIDAE**

**HYDROPHYLAX** Matheson and Crosby

- H.quivolans** Mat. & Cy. Ithaca (types-CU).

**TRICHOGRAMMA** Westwood

- T. minutum** Rly. Utica; Ithaca; Schoharie; Albany; Youngstown.

FAMILY **MYMARIDAE**

**ANAGRUS** Haliday

- A. ovijentatus** Cy. & Leon. Ithaca, egg parasite on *Lygus pratensis* L.

**CARAPHRACTUS** (Haliday) Walker

- C. cinctus** Wlk. Ithaca (Mat&Cy), reared from eggs of *Notonecta*.

**GONATOCERUS** Nees

- G. ovicenatus** Cy. & Leon. Ithaca (types-CU), egg parasite of *Idiocerus scurra* Germ.

**POLYNEMA** Haliday

- P. picipes** Gir. Oswego.

FAMILY **EVANIIDAE**

**EVANIA** Fabricius

(Subgenus **EVANIA** Fabricius)

- E. appendigaster** L. NYC; **LI**: Brooklyn (Sf). This and the following species are parasites of domestic cockroaches, and are found in cities.  
**E. punctata** Brullé (*urbana* Bdy.). Albany, Je 3-Aug 6 (Bdy-NYS); Helderbergs, *SCBishop* (Bdy-NYS); NYC; **SI**, *Ds* (Bdy); **LI**: Brooklyn, Je, *Eng* (Sf); Flatbush, *Zab* (Bdy-AM); Bellport, *Nic* (Sf).

(Subgenus **EVANIELLA** Bradley)

- E. semaeoda** Bdy. **LI**: Wading R. (Sf).

## HYPTIA Illiger

- H. harpyoides** Bdy. Ithaca, J1 9-17 (types-CU); **LI**: Flatbush, J1 2, *Zab* (Bdy-CU); Central Pk., J1 (Sf); Cold Sp. Harb., J1 31 (Bdy-AM); Wading R. (Sf).  
**H. mylacridomanesa** Bdy. Ithaca, *Comstock* (type-CU).  
**H. reticulata** Say. Huguenot, *Zab* (Brues-AM); **LI**: Bellport, *Nic* (Sf-AM).  
**H. prosetethetra** Bdy. **LI**: Flatbush, Fishers I., *Zab* (Brues-AM).  
**H. thoracica** Blanch. **LI**: Wading R. (Sf).

## Superfamily VESPOIDEA

FAMILY PSAMMOCHARIDAE: THE SPIDER-HUNTING WASPS<sup>165</sup>

## (Pompilidae)

## SUBFAMILY PSAMMOCHARINAE

## (Pompilinae)

(The members of this subfamily construct subterranean nests which they provision with spiders.)

## Tribe PSAMMOCHARINI

## (Pompilini)

## AGENIOIDEUS Ashmead

- A. humilis** (Cress.). Keene Val., *Not* (Beq); Ithaca, J1 1-7 (Bks-MCZ); **LI** (Bks-MCZ).

## ALLOCYPHONYX Ashmead

- A. maurus** (Cress.). Saranac, J1, 1905, *Yg* (NYS).

## APORINELLUS Banks

- A. fasciatus** (F. Sm.). **LI**: Pennequid Barrens (Beq). Austral species.  
**A. ferrugineipes** (Vier.). **LI**: Bayville (Bks-Beq, 1919). Austral species.

## ARACHNOPHROCTONUS Ashmead

- A. ferrugineus** (Say). Ithaca, Aug 7 (Bks-CU); Ft. Montgomery, *Schott* (Beq); **SI** (Beq). Widely distributed; a common southern species. Ithaca must be nearly its northern limit.

## BATAZONUS Ashmead

- B. interruptus** (Say). Gloversville, Sep, 1908 (NYS); Rochester Jct., J1 7, *Leon* (Bks-CU); White Plains (Beq); **LI**: Jamaica, Springs, Mastic, Wyandanch, Orient (Beq). Austral form.

<sup>165</sup> The manuscript for this family has been submitted to Messrs. Banks, Bequaert, and Rohwer, and we are indebted to these gentlemen for their criticisms, suggestions, and additions. Mr. Banks has kindly indicated the proper generic position of certain species.

## EPISYRON Schiødte

- E. biguttatus** (Fab.). Keene Val., Aug 3, *Not* (AM); New Russia, Aug 18, *Bdy* (Bks-CU); Potsdam, Je (Bks-CU); Buffalo (Beq); Cattaraugus, Sep 4 (Bks-CU); Ithaca, Jl 25 (Bks-CU); Norton's Landing, May 25-Jl, *SmHH* (Cress-CU); McLean, Jl 9-Aug 17, *Sib* (Bdy-CU); Oliverea (Beq); L. George, Aug, *Zab* (AM); Rhinebeck, Jl 27, *Cy* (Bks-CU); Katonah, Aug, *Bt* (AM); West Farms, *Angus* (AM); **LI**: Wyandanch, Orient, Gardiners I. (Beq); Barren I., Aug, *Zab* (AM). Chiefly Canadian. Provisions its nest with *Epeira labyrinthica*.
- E. quinquenotatus** (Say). Wilmington, Aug 20-25 (Bks-CU); Keene Val., *Not* (Beq); Ithaca, Jl 25-Aug 8 (Bks-CU); L. George, Aug 22, *Zab* (AM); Ft. Montgomery, *Schott* (Beq); **LI**: Rosedale, *Schott* (Beq); Forest Hills, Sep 11, *Frost* (Bks-CU); Flatlands, *Zab* (AM); Wading R., Jl (Ds). Canadian. Provisions its nest with *Epeira strix*.
- E. snowi** (Vier.). Rochester Jct., Je 7, *Leon* (Bks-CU). A southern form ranging into Canada.

## PEDINASPIS Kohl

- P. niger** (Cress.). Boston, Niagara Falls, Lancaster, Jl-Aug, *MCV* (Bks-MCZ); **LI**: Orient, Aug, *Zab* (Bridwell-AM).

## PSAMMOCHARES Latreille

(Pompilus Fabricius)

(Subgenus PSAMMOCHARES Latreille)

- P. atlanticus** Bks. **LI**: Long Beach, Aug (types-AM).
- P. astur** Bks. New Russia, Aug 18, *Bdy* (Bks-CU). Canada to Va.
- P. lasiope** Bks. Essex Co, Aug 18, *Bdy* (paratype-CU); Saranac L., Aug 25 (type-CU); Ithaca, May, 1907 (paratype-CU).
- P. relativus** (Fox). New Russia, Aug 18, *Bdy* (Bks-CU); White L. (AM); Manlius, Sep 1-21, *SmHH* (Cress-CU); **LI**: Fire I., Aug 7 (AM); Wading R., *Ds*; Orient, Long Beach, Gardiners I. (Beq).
- P. pretiosa** Bks. **LI**: Sea Cliff, on the beach (types-MCZ).
- P. scelestus** (Cress.). Speculator, Aug, 1912, *Yg* (NYS); Harford to Caroline, Je 15, *MacG*, *Bdy* (Bks-CU).
- P. sublaevis** Bks. **LI**: Sea Cliff (one of the types-MCZ).
- P. tropicus** (Fab.). **SI**: Watchogue (Beq); **LI**: Orient (Beq).
- P. ventralis** Bks. Ithaca, Jl 1 (Bks-CU). Known also from Ga.

\*(Subgenus LOPHOPOMPILUS Radoszkowsky)

- P. aethiops** (Cress.). Round I. (Bks-CU); Gloversville, Sep, *Yg* (NYS); Albion (Bks-CU); Cattaraugus, Sep 4 (Bks-CU); Otto, Sep 1-15, *Comstock* (Bks-CU); Ithaca, Jl 24-Aug 28 (Bks-CU); McLean, Jl 18-Sep 14, *Sib* (Bdy-CU); Oliverea (Beq); Nyack, West Farms, Mosholu (AM); Atwater, Sep 17; **SI** (Beq); **LI**: Sea Cliff (Bks-CU); Flatbush (AM); Long Beach, Gardiners I. (Beq).
- P. atrox** (Dahlbom). Ithaca, Jl 25 (Bks-CU); **LI**: Flushing, Jamaica, Rockaway Beach, Wyandanch (Beq).
- P. bengtssoni** Regan. **LI**: Riverhead, Sep 14 (Bdy-CU); Fishers I., Long Beach (paratype); Wyandanch, Gardiners I. (Beq).



**P. cleora** Bks. Regan records this species from Ithaca and from Rockaway and Wading R., **LI**; but Banks thinks these eastern records of *cleora* are really his *ilione*.

**P. ilione** Bks. **LI**: Sea Cliff (one of the type series).

(Subgenus **ANOPLIUS** Lepeletier)

**P. depressipes** (Bks.). Ithaca, J1 21 (type-CU).

**P. illinoiensis** (Robertson). New Russia, Aug 18, *Bdy* (Bks-CU); Cattaraugus, Sep 4 (Bks-CU); Otto, *Comstock* (Bks-CU); Ithaca, J1 4-Aug 24 (Bks-CU); McLean, J1 18-Sep 12 (Bks-CU); Oliverea (Beq); Middletown, J1 2-20, *Spooner* (Bks-CU); **SI** (Beq).

**P. ithaca** Bks. New Russia, Aug 18, *Bdy* (Bks-CU); L. Keuka, Je 28, *Cy* (Bks-CU); Ithaca, J1 (type), common, May 23-Aug 26 (Bks-CU); Thousand Isls. (Bks-CU).

**P. luctuosus** (Cress.). **SI** (Beq). This is a western and northern species.

**P. similaris** Bks. Ithaca, J1 19, 25 (types-CU).

**P. tenebrosus** (Cress.). Keene Val., *Not* (Beq); Saranac, J1, *Yg* (NYS); Old Forge, J1, *Yg* (NYS); Ithaca, Aug 15, McLean, J1 29, Malloryville, Je 18-20, *MacG*, *Bdy* (Bks-CU); **LI**: Coney I., Oct 6, *Zab* (AM). Chiefly a Canadian and Rocky Mt. species.

**P. virginiansis** (Cress.). New Russia, *Bdy* (Bks-CU); Ithaca, Je 10-Aug 7, McLean, J1 27-Aug 12, W. Danby, Aug 15, Harford to Caroline, Je 15, *MacG*, *Bdy*, Spencer, Je 30 (Bks-CU); Norton's Landing, Cayuga L., *SmHH* (Cress-CU); Ft. Montgomery, *Schott* (Beq); **SI** (Beq); **LI**: Gardiners I. (Beq). Transitional to austral.

(Subgenus **POMPILOIDES** Radoszkowszky)

**P. americanus** (Pal. de Beauv.). New Russia, Aug 18, *Bdy* (Bks-CU); Keene Val., *Not* (Beq); **SI** (Beq); **LI**: Brooklyn (Beq); Farmingdale, J1 18, *Morrow* (Bks-CU). A southern species.

**P. cylindricus** (Cress.). New Russia, Aug 18, *Bdy* (Bks-CU); Keene Val., *Not* (Beq); Wilmington, Aug 20-25, 1000-2000 ft. (Bks-CU); Speculator, Aug 12, *Yg* (NYS); Ithaca, May-Aug 31, Spencer, Je 30, McLean, J1 3-Sep 24, *Sib* (Bks-CU); Norton's Landing, Cayuga L., Je 22, *SmHH* (Cress-CU); **LI**: Wading R., Orient (Beq). Essentially a Canadian species.

**P. marginatus** (Say). Keene Val., *Not* (AM); New Russia, Aug 18, *Bdy* (Bks-CU); Potsdam, Aug 14 (Bks-CU); White L., *Zab* (AM); Rochester Jct., J1 14, *Leon* (Bks-CU); Manlius, Sep 6, *SmHH* (Cress-CU); Ithaca, Taughannock, J1 15-Sep 1 (Bks-CU); Homer, J1 2 (Bks-CU); Oliverea (Beq); White Plains (Beq); Mosholu (AM); West Farms, *Angus* (AM); **SI** (Beq); **LI**: Forest Hills, Sep 11, *Frost* (Bks-CU); Riverhead, Sep 17 (Bks-CU); Coram, Fishers I. (AM); Mastic, Yaphank, Gardiners I. (Beq).

**P. rectus** (Bks.). Black Br., Je 21 (Bks-CU); E. Aurora, *MCV* (MCZ, one of type series); Ithaca, J1 9-25 (Bks-CU); **LI**: Orient (Beq).

**P. reducta** (Bks.). Wilmington, Aug 20-25, 1000-2200 ft. (Bks-CU); McLean, J1 18, 1921 (Bdy-CU). Known chiefly from Canada.

**P. semirufus** (Cress.). **LI**: Long Beach (Beq).

(Subgenus **SERICOPOMPILUS** Ashmead)

**P. humilis** (Cress.). "NY", type.

(Subgenus **NANNOPOMPILUS** Ashmead)

- P. argenteus** (Cress.). White L., Aug 25, *Zab* (AM); McLean, J1 18, 1921 (Bdy-CU); Catskills (AM); Rhinebeck, J1 27, *Cy* (Bks-CU). An austral species.
- P. rufibasis** (Bks.). Ithaca, early J1 (holotype).

(Subgenus **SOPHROPOMPILUS** Ashmead)

- P. brevicornis** (Cress.). Niagara Falls, J1, *MCV* (Bks).
- P. hyacinthinus** (Cress.). E. Aurora, Elma, J1-Aug, *MCV* (Bks); Ithaca, J1 25, Otto, *Comstock* (Bks-CU); Oliveria (Beq); **LI**: Orient (Beq).
- P. ingenuus** (Cress.). New Russia, Aug 18, *Bdy* (Bks-CU); **SI** (Beq); **LI**: Sea Cliff, Aug (Bks-Mus. Comp. Zool., Harvard Univ.); Long Beach (Beq); Rockaway Beach (Beq).
- P. quadrispinosus** Bks. **LI**: Long Beach, Aug (Bks); Orient, Gardiners I. (Beq).
- P. subviolaceus** (Cress.). Albany, J1, 1906, *Yg* (NYS); **LI**: Cold Sp. Harb. (AM); Gardiners I. (Beq). Mr. Banks considers that this is probably identical with *P. hyacinthinus*.

Tribe **PEPSINI****AGENIELLA** Banks

- A. accepta** (Cress.). **LI**: Riverhead (Beq).
- A. bombycina** (Cress.). Rochester Jct., J1 11, *Leon* (Bks-CU); Ithaca, bred from mud nest found under stone, adults emerged Je 14, *Comstock* (Rly-CU); West Farms, *Angus* (Cress-AM); **LI**: Brooklyn (Beq); Rockaway (AM).
- A. calcarata** (Cress.). Ithaca, J1 16 (Bks-CU).
- A. eximia** Bks. Ithaca, J1 2-Aug 10 (paratype-CU).
- A. iridipennis** (Cress.). Ithaca, J1 22 (Bks-CU).
- A. norata** Bks. Niagara Falls, *MCV* (one of type series-Mus. Comp. Zool., Harvard Univ.).
- A. perfecta** (Prov.). E. Aurora, J1, *MCV* (Bks); Ithaca, J1 10 (Bks-CU).
- A. petiolata** (Cress.). **LI**: Gardiners I. (Beq).
- A. tenella** Bks. Niagara Falls, J1 31, *MCV*, Boston, Aug 1, *MCV* (types).

**AGRIOGENIA** Banks

- A. brevis** (Cress.). **LI**: Springs (Beq).
- A. pulchripennis** (Cress.). Albany, Je, *Yg* (NYS); Poughkeepsie, Je, 1908, *Yg* (NYS); West Farms, *Angus* (AM).

**CRYPTOCHEILUS** Panzer

- C. fulvicornis** (Cress.). **LI**: Sheepshead Bay, Aug, 1903, *Yg* (NYS).
- C. magnus** (Cress.). **LI**: Riverhead (Beq).
- C. minorata** (Bks.). Ithaca, May 13-Sep 7 (Bks-CU).
- C. unifasciatus** (Say). New Baltimore (AM); Albany, Aug, 1907 (NYS); Ft. Montgomery, Aug 19, *Schott* (Beq); Stony Pt. (Beq); Bear Mt., *Ols* (Beq); Thiells, Aug 22, *Wat* (Ds); **SI**, Aug 25, *Ds* (Beq); **LI**: Cold Sp. Harb. (AM); Mastic (Beq).

## PRIOCNEMIS Schiødtte

- P. alienatus** (Sm.). Manlius, Aug 29, *SmHH* (Cress-CU); Taughannock, Aug 22, *HJones* (Bdy); Ithaca, J1 9, Mud Cr., Je 17-20, *MacG*, *Bdy* (Bks-CU); Ft. Montgomery, W. Nyack, *Schott* (Beq); West Farms, *Angus* (Bks-AM); **SI**: Watchogue, Sep (Ds); **LI**: Sea Cliff, Sep (Bks); Port Jefferson, Cold Sp. Harb., Orient, Long Beach (Bks-AM); Pennekid Barrens, Gardiners I. (Beq).
- P. conicus** (Say). New Russia, Aug 18, *Bdy* (Bks-CU); Rock City, Je 9 (Bks-CU); Ithaca, May 2-Je 8, common, McLean Bogs, May 30, Taughannock Falls, May 15, Slaterville to Caroline, Je 14 (Bks-CU); Norton's Landing, Cayuga L., May 25-Je 5, *SmHH* (Cress-CU); Oliveria (Beq). Essentially a transitional species.
- P. fortis** (Cress.). "NY" (type-AES).
- P. germanus** (Cress.). Keene Val., *Not* (Beq); Keene (Bks-CU); New Russia, Aug 18, *Bdy* (Bks-CU); Old Forge, J1, *Yg* (NYS); White L., Aug 16, *Zab* (Bks-AM); Ithaca, J1 19 (Bks-CU); Oliveria (Beq); NYC (Beq); **LI**: Cold Sp. Harb., Gardiners I. (Beq).
- P. nebulosus** (Dahlb.). "NY" (Cress).
- P. nothus** (Cress.). E. Aurora, *MCV* (Bks); Otto, Comstock (Bks-CU); Ithaca, J1 28.
- P. pompilius** (Cress.). Ithaca, Aug 10-Sep 1 (Bks-CU); Ft. Montgomery, *Schott* (Beq). Mostly austral; also Pacific Coast.
- P. relictus** (Bks.). **LI**: Sea Cliff, Sep (type).

## PSEUDAGENIA Kohl

- P. albopilosa** (Cress.). Ithaca, J1 22-Sep, and Otto, *Comstock* (Bks-CU).
- P. architecta** (Say). Ithaca, Mar 20-J1 22 (Bks-CU); Poughkeepsie, Je, *Yg* (NYS); **LI**: Huntington, *Schott* (Beq). Builds mud cells under stones.
- P. caliptera** (Say). New Russia, Aug 18, *Bdy* (Bks-CU); Niagara Falls, J1, *MCV* (Bks); Ithaca, Je 9-J1 26 (Bks-CU); Ft. Montgomery, *Schott* (Beq); Mosholu, Je 18 (AM); **LI**: Port Jefferson, Gardiners I. (Beq).
- P. mellipes** (Say). Pike (NYS).
- P. nanella** Bks. Ithaca (paratype); **LI**: Sea Cliff (type).
- P. nigrella** Bks. Ithaca, J1 1 (Bks-CU).
- P. variitarsata** D.T. New Russia, Aug 18, *Bdy* (Bks-CU); Keene Val., *Not* (Beq); Otto, Aug, *Comstock* (Bks-CU); Ithaca, Je 25-Aug 19 (Bks-CU); McLean, Aug 7-18, 1925, *Robinson*, Aug 23-31, 1924, *Sib* (Bdy-CU).

## SUBFAMILY CEROPALINAE

(The members of this subfamily live as social parasites in the nests of other Psammodiidae.)

## CEROPALES Latreille

- C. bipunctata** Say. Newport, Aug, 1909 (NYS); Clifton Sps., Aug 18 (Bdy-CU); Otto, Sep, *Comstock* (Bdy-CU); Cattaraugus, Sep 14 (Bdy-CU); Johnstown, Aug (NYS); Ithaca, not rare (Bks-CU); Freeville, Aug 17 (Bdy-CU); Stony Pt., NYC (AM); **SI** (Beq); **LI**: Long Beach, Gardiners I. (Beq).

- C. fraterna** Sm. Peru, Je 10 (Bks-CU); New Russia, Aug 18 (Bdy-CU); Wilmington, Aug 20-25, 1000-2200 ft. (Bks-CU); Honeoye Falls, Aug 15, *Leon* (Bks-CU); Otto, Sep, 1886, *Comstock* (Bdy-CU); Ithaca, Je 7-Jl 25, frequent (Bks-CU); Malloryville, Je 18-20, *MacG* (Bdy-CU); McLean, Jl 18, 1921 (Bdy-CU). A common Canadian and transitional form.
- C. robinsonii** Cress. McLean, Jl 19, visiting *Cicuta maculata*, *And* (Bdy-CU). A rare species, mostly southern and central.

#### FAMILY CHRYSIDIDAE: CUCKOO WASPS, or GOLD WASPS

Compiled by LELAND H. TAYLOR

(These wasps live as social parasites in the nests of solitary bees and wasps.)

#### OMALUS Jurine

(*Elampus* Spinola)

- O. corruscans** (Nort.). Aurora (E. Aurora?) (AM); Manlius, Aug 4, Norton's Landing, Cayuga L., May 25-Je 22, *SmHH* (MacG).
- O. laeviventris** Cress. Albany, Je, Karner, May (NYS).
- O. sinuosus** (Say). Norton's Landing, Cayuga L., Je 2, *SmHH* (MacG-CU).

#### HOLOPHRIS Mocsáry

- H. iridescens** (Nort.). Norton's Landing, Cayuga L., May 25-Je 15, Ithaca, May-Jl 16, *SmHH* (MacG-CU). McLean, Sep 12, 1924, *Sib* (Bdy-CU).

#### NOTOZUS Foerster

- N. marginatus** Patton. N. Fair Haven, Jl 4 (Taylor-CU); Penn Yan, Jl 12, 1925, *Babiy* (Taylor-CU); Ithaca, Jl 16-19 (MacG, Bdy-CU).
- N. viridicyaneus** (Nort.). Herkimer, Aug 8, 1921, *Leon* (Taylor-CU).

#### HOLOPYGA Dahlbom

- H. ventralis** (Say). Norton's Landing, Cayuga L., Jl, *SmHH* (MacG-CU); Ithaca, Je-Jl 21 (MacG-CU).

#### HEDYCHRIDIMUM Perrin

- H. dimidiatum** (Say). Manlius, Aug 4, *SmHH* (MacG-CU); Ithaca, Jl 25 (Bdy-CU).

#### HEDYCHRUM Latreille

- H. violaceum** Brullé. Long L., Aug (NYS); N. Fair Haven, Jl 4, 1922, Spring Lake, Jl 22, 1918, *Bdy* (Taylor-CU); Ithaca, Jl 5-Aug 26 (MacG, Bdy-CU); Karner, Je (NYS).

#### PARNOPES Fabricius

- P. aglaspidula** Melander and Brues. "NY" (Taylor).

## CHRYSIDEA Bischoff

(Chysogona auctt. not Foerster)

- C. verticalis** (Patton). Wilmington, White L. (Taylor-CU); Canandaigua L., Je (NYS); Otto, *Comstock* (MacG-CU); Penn Yan, Jl 12, 1925, *Babiy* (Taylor-CU); Norton's Landing, Cayuga L., May 31-Je 21, *SmHH* (MacG-CU); Ithaca, Je 8-Aug 31 (Taylor-CU); Caroline to Harford (Taylor-CU); New Baltimore (AM); Albany, Je, Nassau, May (NYS); West Farms (Taylor-CU); **LI**: Cold Sp. Harb., Sea Cliff (Taylor-CU).

## CHRYISIS Linnaeus

(Subgenus **OLOCHRYISIS** Lichtenstein)

- C. hilaris** Dahlb. Norton's Landing, Cayuga L., *SmHH* (MacG-CU); Ithaca, May 11 (MacG-CU).  
**C. pacifica** Say. Ithaca (Taylor-CU).

(Subgenus **GONOCHRYISIS** Lichtenstein)

- C. perpulchra** Cress. Keene (Taylor).

(Subgenus **MONOCHRYISIS** Lichtenstein)

- C. discreta** Aaron. Ithaca, Sonyea, **SI** (Taylor-CU).

(Subgenus **TRICHRYISIS** Lichtenstein)

- C. tridens** (Lep.) (*parvula* Fab.). Wells, Jl, *Yg* (NYS); Ithaca, New Windsor (Taylor-CU).

(Subgenus **TETRACHRYISIS** Lichtenstein)

- C. cessata** duBuysson. N. Fair Haven, Jl 4, 1922, *Snn* (Taylor-CU); Portageville, Ithaca, Jl 5-Aug 2, *Babiy*, Norton's Landing, Cayuga L., May 30-Je 27, *SmHH* (Taylor-CU); McLean, Je 20, 1924, *Sib* (Taylor-CU); Manlius, Sep 15 (Taylor-CU); West Farms (Taylor-CU).  
**C. coerulans** Fab. Summit of Mt. McIntyre, Sep 2, 1922, *Snn&Sib* (Taylor-CU); Ithaca, Je 26-Sep 18 (Taylor-CU). It is not certain that these really represent the Fabrician species.  
**C. conserta** duBuysson. "NY" (duBuysson).  
**C. nitidula** Fab. Ithaca, Je 26-Jl 29 (Taylor-CU); McLean, Aug 18, 1925, *Sib* (Taylor-CU). "There is considerable doubt that this is the Eur. *nitidula*, but it is provisionally so determined." (L. H. T.)  
**C. pellucidula** Aaron. Manlius, Aug 2. *SmHH* (MacG-CU); Ellis to Slaterville, Je 13, 1904, *MacG&Bdy* (Taylor-CU); **LI**: Cold Sp. Harb. (Taylor).

(Subgenus **HEXACHRYISIS** Lichtenstein)

- C. inaequidens** Dahl. "NY" (Brullé).  
**C. smaragdula** Fab. Ithaca, Je 18 (Bdy-CU); **LI**: Sea Cliff (Taylor).



## FAMILY ANTHOBOSCIDAE

## SIEROLOMORPHA Ashmead

- S. ambigua** Ashm. Ithaca, J1 20, 1904, one specimen (Bdy-CU). An extremely rare insect, of unknown habits.

## FAMILY SAPYGIDAE

(These are extremely rare social parasites of aculeate Hymenoptera.)

## SAPYGA Latreille

- S. americana** Cress. "NY" (type-AES); Ithaca (Bdy-CU); Taughannock Falls, Je 6, 1925 (Bdy-CU); Center Lisle, Je 10, *PBFletcher* (Bdy-CU); Nyack (Bdy-AM); West Farms, *Angus* (Bdy-AM).  
**S. centrata** Say. Chappaqua, Je 15, 1919, *Wat* (Bdy-AM).  
**S. martini** Sm. Ithaca, Je 6 (Bdy-CU).

## FAMILY TIPHIIDAE

## SUBFAMILY TIPHIINAE

TIPHIA Fabricius<sup>166</sup>

(The members of this genus live in the larval stage on white grubs, Phyllophaga.)

- T. clypeata** Robertson. Ithaca, J1 19 (Bdy-CU); **LI**: Sea Cliff, *Bks* (Mall-Mus. Compar. Zool., Harvard Univ.).  
**T. clypeolata** Mall. Ithaca, J1 20, 1904 (Mall-CU).  
**T. punctata** Robertson. Ithaca, Aug 7, 1897 (Mall-CU).  
**T. similis** Mall. Ithaca, J1 20, 1904 (Mall-CU).  
**T. transversa** Say. Ithaca, J1 19-24 (Bdy-CU). This seems to be the common local species at Ithaca.  
**T. robertsoni** Mall. Ithaca, Aug 4, 1885 (Mall-CU).  
**T. inornata** Say. Ithaca, J1 17-Aug 18 (Bdy-CU).  
**T. illinoiensis** Robertson. Ithaca, J1 (Bdy-CU).

## ELIS Fabricius

(*Myzine* auctt.)

(The members of this genus are southern, and are confined in New York to the sandy coastal region. The adults are found on flowers of Compositae and Umbelliferae in late summer. The larvae live on white grubs.)

- E. interrupta** (Say). **SI** (Beq); **LI**: Springs, Rosedale, Huntington, Pennequid Barrens, Gardiners I. (Beq).  
**E. quinquecincta** (Fab.) (*sexcincta* auctt.). **SI** (Beq); **LI**: Springs, Wyandanch, Huntington, Long Beach, Gardiners I. (Beq).

<sup>166</sup> The North American species of the genus *Tiphia* in the collection of the Illinois State Natural History Survey. By J. R. Malloch. Ill. Nat. Hist. Survey. Bul. 13.

## SUBFAMILY METHOCINAE

## METHOCA Latreille

- M. stygia** (Say). Rochester Jct., Je 30, *Leon* (Bdy-CU); Taughannock, Aug 1, a male, *Guerlac* (Bdy-CU); Ithaca, Aug 12, 1925, *Babiy* (Bdy-CU). The larvae live on the larvae of tiger beetles.

## SUBFAMILY MYRMOSINAE

## MYRMOSA Latreille

(Subgenus MYRMOSA Latreille)

- M. unicolor** Say. Chilson L., Jl 15 (Ds); Rochester Jct., Je 19-30, *Leon* (Bdy-CU); Ithaca, Je 24-Aug 6 (Bdy-CU); Taughannock, Aug 15, a female, *Guerlac* (Bdy); McLean, Aug, 1916 (Bdy-CU); L. George, *Zab* (Bdy-AM); Ft. Montgomery, Jl 7, *Schott* (Roh); Rhinebeck, Jl 27, *Cy* (Bdy-CU); West Farms (AM); **LI**: Cold Sp. Harb., Flatbush, Parkville (Bdy-AM). The females are found in gravel pits among burrows of *Halictus*, in which they doubtless lay their eggs.
- M. blakei** Bdy. "NY", a female (type-AES).

FAMILY MUTILLIDAE<sup>167</sup>

## PSEUDOMETHOCA Ashmead

- P. canadensis** (Blake). Rocky Glen, Aug 23 (Mickel); Cinnamon L., Je 5, *Babiy* (Bdy); Ithaca, Jl 19-Aug 10 (Mickel-CU); McLean, Aug 2 (Mickel-CU); Nyack, West Farms (Mickel); **LI**: Yaphank (Mickel). Occurs throughout eastern US.
- P. geryon** (Fox). **LI**: Sea Cliff, Aug, *Bks* (Bdy-MCZ). An austral species.
- P. simillima** (Sm.). **SI**, Aug 8, *Ds* (Bdy); **LI**: Flatbush, May 16-Sep 6 (Mickel); Selden, Aug 30, *Ds* (Mickel); Wyandanch, May (Mickel); Kissena L., Aug 20 (Mickel). An austral species.
- P. sanbornii** (Blake). New Russia, Sep 12, *Bdy* (Mickel-CU); **LI**: Cold Sp. Harb., Jl 27 (Mickel). Occasional in the Carolinian zone, extending slightly into the Transitional.

DASYMUTILLA Ashmead<sup>168</sup>

(Subgenus BRUESIA Ashmead)

- D. bexar** (Blake) (*harmonia* Fox, ♀). Karner, Je 28-Jl 24, ♂♀ (Bdy-NYS); Albany, Jl 9, ♀ (Bdy-NYS); **LI**: Selden, Sep 1, ♀, *Ds* (Mickel-CU); Cold Sp. Harb., Je 17-Sep 14, *And*, *SHEmerson* (Mickel-CU).

(Subgenus DASYMUTILLA Ashmead)

- D. occidentalis** (L.). Mt. Vernon, Sep 1 (Bdy-NYS); **LI**: Selden, Amagansett, Aug 10, thirty-one ♀♀, *Ds* (Mickel-CU); Montauk, Aug, *Ang* (Bdy-NYS). A very common austral species.

<sup>167</sup> Contributions toward a monograph of the Mutillidae and their allies of America north of Mexico, II. The Mutillidae of the eastern United States. By J. C. Bradley. Trans. Amer. Ent. Soc., 1916, 42: 309-336.

<sup>168</sup> Dr. C. E. Mickel, who is revising the genus *Dasymutilla*, has kindly furnished the records known to him for this genus.

- D. gibbosa* (Say). Ithaca, Jl 27, male (Mickel, Bdy-CU); Rhinebeck, Jl 27, male, Cy (Mickel-CU); Middletown, Jl 2-10, male, *Spooner* (Mickel-CU); **LI**: Sea Cliff, Jl 23, *HTBasset* (Bdy-AES); Cold Sp. Harb., Jl 16, male (Mickel-CU). A scarce species of the Transition zone, extending into the Carolinian.
- D. cariniceps* (Fox). Ithaca, Je 23-Aug 7, female (Bdy, Mickel-CU); **LI**: Sea Cliff, *Bks* (Bdy-Mus. Compar. Zool., Harvard Univ.); Cold Sp. Harb., Jl 16-Sep 15, females, *SHEmerson*, *And* (Mickel-CU). Probably the female of *gibbosa*; range the same.
- D. agenor* (Fox). Mosholu, Aug 9, male (Mickel-Penn. State Col.); **LI**: Cold Sp. Harb., Je 27, male, *And* (Mickel-CU).
- D. rugulosa* (Fox). **LI**: Sea Cliff, Jl, female, *Bks* (Bdy, Mickel-CU); Cold Sp. Harb., Je 19-Sep 13, females, *And*, *SHEmerson* (Mickel-CU).
- D. cypris* (Blake). **LI**: Yaphank, Bellport, Wading R., Aug 27, females, *Ds* (Mickel-CU); Cold Sp. Harb., Je 17-27, female, *And* (Mickel-CU).
- D. ferrugata* (Fab.). **LI**: Wading R., Selden, Yaphank, Aug 27-Sep 1, females, *Ds* (Mickel-CU); Cold Sp. Harb., Je 22-Sep 12, females, *And*, *SHEmerson* (Mickel-CU); Amityville, Jl 14, female, *SHEmerson* (Mickel-CU).
- D. lepeletieri* (Fox). **LI**: Cold Sp. Harb., Je 22 Jl 18, males, *SHEmerson*, *And* (Mickel-CU); Yaphank, Jl 4 (Mickel-CU).
- D. champlaini* Roh. New Russia, Aug 12, female, *Bdy* (Mickel-CU); **LI**: Yaphank, Aug 29, female, *Ds* (Mickel-CU); Selden, Amagansett, female, Aug 10-30 (Mickel-CU); Cold Sp. Harb., Jl 8-Aug 4, females, *And*, *SHEmerson* (Mickel-CU).
- D. zella* Roh. **LI**: Cold Sp. Harb., Je 17-Aug 25, females, *And*, *SHEmerson* (Mickel-CU).
- D. alesia* Bks. **LI**: Yaphank, Aug 16, female, *Ds* (Mickel-CU).
- D. hirticula* Mickel. Pelham, Aug 7 (paratype); **LI**: Amagansett, Aug 10 (Bdy-BM); Sea Cliff, Jl 1, male, *Bks* (Bdy-MCZ, Mickel-CU); Cold Sp. Harb., Jl 9-18, male, *And*, *SHAnderson* (Mickel-CU). A species of the Carolinian zone.
- D. permista* Mickel. **LI**: Flatbush, Jl 21 (paratype); Central Pk., Selden, Yaphank, Aug 27-30, males, *Ds* (Mickel-CU); Cold Sp. Harb., Jl 23-27 (paratype), Jl 9, male, *And* (Mickel-CU). This seems to belong chiefly to the Carolinian zone.
- D. obscura* (Blake). **LI**: Greenport, Aug 3, female, *Eng* (Bdy); Wading R., female (Bdy-BM). A scarce species of the Carolinian zone.

## MUTILLA Linnaeus

(Subgenus **TIMULLA** Ashmead)

- M. briaxus* Blake. New Russia, Aug 18, female (Bdy-CU); Crown Pt., Aug, female (Bdy); Selkirk, female, Sep 15, *SCBishop* (Bdy); Rochester Jct., male, Jl 11, *Leon* (Bdy-CU); Ithaca, male and female, Jl (Bdy-CU); **LI**: Queens, Jl 23, male (Bdy-BM); Roslyn, female, Yaphank, Jl 10, female, *Eng* (Bdy); Amagansett, Aug 11, *Eng* (Bdy); Sea Cliff, female, *Bks* (Bdy); E. Hampton, Sep 26, female, *Eng* (Bdy); Cold Sp. Harb., Sep 9, female, *Eng* (Bdy). Ranges from the Rocky Mts. and Canada southward throughout the eastern States to Florida.
- M. rufa* Lepeletier. **LI**: Sep 5, male, *Eng* (Bdy); Sea Cliff, female, *Bks* (Bdy). An austral species not known from north of **LI**.

- M. hexagona** Say. **LI**: Central Pk., Ap 17, female, *Eng* (Bdy); Yaphank, Sep 22, Oct 11, male and female, *Eng* (Bdy-CU). Known chiefly from the northern Carolinian zone and not from north of LI.

#### EPHUTA Say

- E. puteola** (Blake). **LI**: Yaphank, Sep 24, female, *Eng* (Bdy). An austral species unknown from north of LI.

### FAMILY SCOLIIDAE

(The members of this family construct loose cells around the subterranean larvae of Scarabaeidae, paralyzing them and laying their eggs upon them. The species are confined to the warmer parts of the State, and almost exclusively to Long Island and Staten Island.)

#### SCOLIA Fabricius

- S. dubia** Say. **LI**: Flushing (Beq). An austral species.  
**S. nobilitata** Fab. **SI**, *Ds* (Bdy); **LI** (Bartlett). An austral species, certainly not to be found in New York State outside of the SI and LI regions.  
**S. bicincta** Fab. L. George, Aug 22, *Zab* (Bdy-AM); Nyack (AM); **LI**: Flatbush, Aug 11, *Zab* (AM).

#### CAMPOMERIS Lepeletier

(*Elis* auctt.)

- C. plumipes** (Drury). **SI**, *Ds* (Bdy); **LI**: Manhattan Beach, Flushing, Rockaway Beach, Wading R. (Beq); Yaphank (Bdy-AM).  
**C. quadrimaculata** (Fab.). West Farms, *Angus* (AM); **SI**, *Ds* (Bdy); **LI**: Riverhead, *Ds* (Bdy); Pennequid Barrens (Beq).

### FAMILY FORMICIDAE

Compiled by JOSEPH BEQUAERT

#### SUBFAMILY PONERINAE

##### STIGMATOMMA Roger

- S. pallipes** (Hald.). Mill Cr., Lewis Co, *Not* (Beq); Ithaca, occasional (Bdy); Walhalla, *Schott* (Beq); White Plains, *Dt* (Beq); Ramapo (Beq); Bronxville (Wheel); Inwood, NYC, *Ds* (Beq); **SI**: Arlington, Je (D&B); **LI**: West Hills, Wading R., North Beach, Yaphank, Cold Sp. Harb. (D&B). This and the following species form very small colonies under stones in woodlands.

##### PONERA Latreille

- P. coarctata** (Latr.) subsp. **pennsylvanica** Buck. Thousand Isls.; Manlius, *SmHH* (CU); Ithaca, common everywhere (Bdy); Bronxville (Wheel); **SI**: Arrochar, Watchogue, Clove Val., St. George, and many other places (D&B); **LI**: Wyandanch, E. New York, West Hills, Newtown Hgts., Cold Sp. Harb. (D&B).

##### SYPSPHINCTA Roger

- S. pergandei** Emery. **SI**: Arrochar near Old Town Road, Je (D&B).

## PROCERATIUM Roger

- P. crassicorne** Emery. **SI:** Old Town Road, May-Nov (D&B); **LI:** Cold Sp. Harb., Aug (D&B).

## SUBFAMILY MYRMICINAE

## MYRMECINA Curtis

- M. graminicola** (Fab.) subsp. *americana* Emery. **SI:** Arrochar, Je (D&B); **LI:** Amagansett, Cold Sp. Harb. (D&B). A rare and local species nesting in rotten wood, or under stones, in damp, shady woods.
- M. graminicola** (Fab.) subsp. *americana* Emery var. *brevispinosa* Emery. "NY" (teste Emery). Nests in small colonies under stones in shady woods, feigning death when disturbed.

## MONOMORIUM Mayr

- M. minimum** (Buck.). **SI:** Clove Val., and elsewhere (L&B); **LI:** Rockaway, Wading R., Baldwin, Pinelawn, Wyandanch, Gardiners I., Cold Sp. Harb. (D&B). Constructs crater nests in sandy or gravelly places.
- M. pharaonis** (L.). THE LITTLE YELLOW HOUSE ANT. Ithaca; NYC. Introduced. Occurs in houses, warehouses, etc.

## SOLENOPSIS Westwood

- S. molesta** (Say). THE THIEF ANT. **SI:** Tottenville, Long Neck (D&B); **LI:** Baldwin, Wyandanch, Yaphank, Brooklyn, E. New York, Cold Sp. Harb., Forest Pk. (D&B). In open grassy places, nesting under stones, or living in the walls of the galleries of nests of large ants.

## CREMATOGASTER Lund

- C. lineolata** (Say). THE SHED-BUILDER ANT. Wyoming Co (Ds); Ithaca, abundant (Bdy); McLean (Wheel); DeBruce, Ds (Beq); **SI:** Long Neck, Arlington, Watchogue, and many other places (D&B); **LI:** Oakdale, Calverton, Yaphank, Half Way Hollow Hills, Wading R., Wyandanch, Pinelawn, Amagansett, Flushing, Shelter I., Southold, West Hills (D&B). A very abundant species, nesting under stones in open places, stumps, boards, the bark of old logs, etc.
- C. lineolata** (Say) var. *cerasi* Fitch. "NY" (Fitch); Ithaca (Comstock).

## PHEIDOLE Westwood

(These are harvesting ants, and are confined to the sandy coastal regions.)

- P. davisii** Wheel. **LI:** Wading R., Je (D&B). Makes small craters in pure white sand of the pine barrens.
- P. morrisi** Forel. **LI:** Wading R., Yaphank, Selden (D&B). Forms low mounds in pure sand, sometimes covering one or two square feet, and often about the roots of a plant (Wheel).
- P. pilifera** (Roger). Southfields, *Schott* (Beq); Hillburn, *Schott* (Beq); **SI:** Tottenville, Arrochar, and elsewhere (D&B); **LI:** Aqueduct, Pinelawn, Baldwin, Wyandanch, Cold Sp. Harb. (D&B). Constructs obscure craters with several openings in sandy or gravelly soil, more rarely lives under stones (Wheel).
- P. tysoni** Forel. Bronxville (Wheel).



- P. vinelandica** Forel. **SI**: Watchogue, Richmond Val., Rossville, Tottenville (D&B). Constructs diminutive craters in pine barrens where the soil is mixed with clay (Wheel).

#### STENAMMA Mayr

- S. brevicorne** (Mayr). Norton's Landing, Cayuga L. (SmHH); Ithaca, Caroline to Harford (MacG&Bdy); **SI**, in a salt meadow, May, Nov; **LI**: Cold Sp. Harb., May (D&B). This is a rare ant, nesting under stones or in vegetable mold in rich woods (Wheel).
- S. brevicorne** (Mayr) subsp. **diecki** Emery. W. Nyack (Beq).
- S. brevicorne** (Mayr) subsp. **diecki** (Emery) var. **impressum** Emery. Richfield Sps. (Emery), type.

#### APHAENOGASTER Mayr

(The species of this genus nest under bark or stones, or the rotten wood in woodlands.)

- A. tennesseensis** (Mayr). McLean (Beq); Ithaca.
- A. treatae** Forel. **SI**: Long Neck, and elsewhere (D&B); **LI**: Pinelawn, Sep, Long Pond, Deep Pond, Wading R., Riverhead, Central Pk., Calverton, Yaphank, Gardiners I. (D&B).
- A. fulva** Roger. Ithaca; Bronxville (Wheel); Ramapo (Wheel).
- A. fulva** Roger subsp. **aquia** Buck. Portage, Rock City, *Ds* (Beq); McLean (Wheel); Olivera, *Ds* (Beq); Southfields, Hillburn, *Schott* (Beq); **LI**: Little Neck, Huntington, Cold Sp. Harb. (D&B).
- A. fulva** Roger subsp. **aquia** var. undescribed. Van Cort. Pk. (Beq); **SI**: New Dorp, Clove Val. (D&B); **LI**: Valley Stream, Wyandanch, Half Way Hollow Hills, Amagansett, Baldwin, Yaphank, Gardiners I., Selden (D&B).
- A. fulva** Roger subsp. **aquia** var. **picea** Emery. **SI**: Arrochar, Je (D&B); **LI**: Smithtown, Cold Sp. Harb. (D&B).

#### MYRMICA Latreille

- M. punctiventris** Roger. **SI**: Long Neck, and other places (D&B); **LI**: Wyandanch, Yaphank, Amagansett, Gardiners I., Cold Sp. Harb. (D&B). A rare species, nesting in small colonies under stones or moss in shady woods (Wheel).
- M. punctiventris** Roger subsp. **pinetorum** Wheel. **LI**: Yaphank, Wading R. (D&B). Nests in pure sand.
- M. scabrinodis** Nyl. var. **fracticornis** Emery. Buffalo (teste Emery).
- M. scabrinodis** Nyl. var. **sabuleti** Mein. Debruce, West Pt., *Ds* (Beq); Bronxville (Wheel); **SI**, found several times (D&B); **LI**: Maspeth, Orient Pt., Fire I., Amagansett, Wyandanch, Yaphank (D&B). Nests in sandy or gravelly, sunny places, such as open pastures, roadsides, etc. (Wheel).
- M. scabrinodis** Nyl. subsp. **schencki** Emery var. **emeryana** Forel. Wilmington, *Ds* (Beq); Genesee Co, *Ds* (Beq); Ithaca; White Plains (Beq); Bronxville (Wheel); Inwood, NYC, *Ds* (Beq); **SI**: Tottenville, Arrochar, Long Neck, and many other places (D&B); **LI**: Pinelawn, Wading R., Gardiners I., Rockaway Beach, Montauk, Yaphank, Central Pk., Massapequa, Wyandanch, Half Way Hollow Hills, Amagansett, Orient Pt., Smithtown, Brooklyn, Cold Sp. Harb. (D&B).
- M. brevinodis** Emery var. **canadensis** Wheel. McLean (Wheel-CU); E. Jewett, Olivera, *Ds* (Beq); **LI**: Pinelawn (D&B).

## LEPTOTHORAX Mayr

- L. curvispinosus** Mayr. McLean (Wheel-CU); **SI**: Richmond, Watchogue, Arrochar, and many other places (D&B); **LI**: Half Way Hollow Hills, Wyandanch, Yaphank, Amagansett, Pinelawn, Cold Sp. Harb. (D&B). Nests in hollow twigs and galls (Wheel).
- L. curvispinosus** Mayr subsp. **ambiguus** Emery. "NY" (teste Emery).
- L. longispinosus** Roger. McLean (Wheel-CU); West Pt., *Ds* (Beq); **SI**: Willow Br., May, Tottenville, Arrochar (D&B); **LI**: Amagansett, Half Way Hollow Hills, Gardiners I. (D&B). Nests under small stones lying on large boulders, in the clefts of rocks, in hollow nuts lying on the ground, and more rarely under bark (Wheel).
- L. fortinodis** Mayr. Newport, Genesee (Beq); **SI**: Richmond, May-Je (D&B); **LI**: Calverton (D&B). Rare on **SI** and **LI**. Has been found nesting in the bark of a living pitch pine (Wheel).
- L. acervorum** (Fab.) subsp. **canadensis** Prov. Mt. Marcy, and foot of Cliff Mt. (Beq); Mt. Whiteface, *Ds* (Beq). A rather rare boreal form nesting in bark in small colonies (Wheel).
- L. schaumii** Roger. **SI**: Richmond. Nests in bark of large elms and willows (Wheel).

## HARPAGOXENUS Forel

- H. americanus** (Emery). Bronxville (Wheel).

## TETRAMORIUM Mayr

- T. caespitum** (L.). THE LAWN ANT. NYC (Beq); Bronx Pk., *Ds* (Beq); Bronxville (Wheel); **SI**: Arrochar, New Brighton, and elsewhere (D&B); **LI**: Baldwin, Forest Pk., Rockaway Beach, and Cold Sp. Harb. (D&B). Introduced.
- T. guineense** (Fab.). **LI**: Brooklyn, Jan, in greenhouse; introduced (D&B).

## STRUMIGENYS F. Smith

- S. pergandei** Emery. **LI**: Forest Pk., Brooklyn, Sep (D&B). Very rare ants, making subterranean nests, often mixed with larger species (Wheel).

## TRACHYMYRMEX Forel

(These are the fungus-growing ants.)

- T. septentrionalis** (McC.). Milford (*Ds*); **LI**: Wading R., May-Je, Hauppauge, Smithtown, Selden (D&B). The colonies of two to seven spherical chambers are built only in sand, and after a few weeks in early spring are closed until after the heat of summer has passed.

## SUBFAMILY DOLICHODERINAE

## TAPINOMA Foerster

- T. sessile** (Say). Ithaca, extremely abundant; McLean; **SI**: Old Place, Tottenville, Todt Hill, and Watchogue (D&B); **LI**: Rockaway Beach, Riverhead, Yaphank, Wading R., Orient Pt., Fire I., Wyandanch, Pinelawn (D&B). One of the most abundant of ants. Nests under stones, logs, etc., mostly in open places.

- T. pruinoseus** Roger. **LI:** Yaphank, Wyandanch, Montauk (D&B). A southern species reaching here its extreme northern limit. Forms single or clustered craters in pure white sand (Wheel).

#### DORYMYRMEX Mayr

- D. pyramicus** (Roger). **LI:** Wading R. (D&B). Forms a small crater in white sand, three or four inches in diameter (Wheel). This is probably the northern extremity of the range of this species also.

#### DOLICHODERUS Lund

- D. mariae** Forel. **LI:** Pinelawn, Riverhead, Long Beach, Wyandanch, Calverton, Yaphank, Selden, Massapequa (D&B). Forms large colonies, nesting in sandy places about the roots of grasses and bushes (Wheel). The workers are commonly met with on plants, attending, aphids.
- D. taschenbergii** (Mayr) var. **atterimus** Wheel. (*taschenbergii* var. *gagates* Wheel.). Upper Ausable L. (Beq); Mt. Whiteface, *Ds* (Beq); **SI:** near seashore (D&B); **LI:** Wyandanch, Calverton, Central Pk., Amagansett, Yaphank, Pinelawn, Massapequa, Coram (D&B).
- D. plagiatus** (Mayr). Oliverea, *Ds* (Beq); **SI:** Long Neck, Tottenville, Watchogue (D&B); **LI:** Wyandanch, Yaphank, Amagansett, Smithtown, Massapequa, West Hills (D&B). Nests in the ground in small colonies (Wheel). These workers also attend aphids.
- D. plagiatus** (Mayr) subsp. **plagiatus** Mayr var. **inornatus** Wheel. **SI** (D&B); **LI:** Pinelawn, Yaphank, Smithtown (D&B).
- D. plagiatus** (Mayr) subsp. **pustulatus** Mayr. **SI:** Tottenville (D&B); **LI:** Yaphank, Smithtown, Massapequa, Wyandanch (D&B).
- D. plagiatus** (Mayr) subsp. **pustulatus** Mayr var. **beutenmuelleri** Wheel. McLean (Wheel-CU); **LI:** Coram, Wyandanch, Massapequa, Farmingdale, south of Smithtown, Selden (D&B).

#### SUBFAMILY FORMICINAE

##### BRACHYMYRMEX Mayr

- B. heeri** Forel subsp. **depilis** Emery. Ithaca; Bronxville (Wheel); **SI:** New Springville, Ap (D&B); **LI:** Cold Sp. Harb. (D&B). Nests under stones and attends root Coccidae (Wheel).

##### PRENOLEPIS Mayr

##### (Subgenus PRENOLEPIS Mayr)

- P. imparis** (Say). Conesus L., *Ds* (Beq); Clinton Hgts. (Beq); Callicoon, *Ds* (Beq); White Plains, Van Cort. Pk. (Beq); **SI:** Tottenville, New Brighton, Watchogue, Long Neck, Annadale (D&B); **LI:** Amagansett, Yaphank, Calverton, Montauk, Pinelawn, Wading R., Gardiners I., Cold Sp. Harb. (D&B). Makes small crater nests in shady oak woods in soil usually containing more or less clay (Wheel).
- P. imparis** (Say) var. **testacea** Emery. **SI:** Tottenville (D&B); **LI:** Wading R., Amagansett (D&B). Nests only in sandy regions, where it replaces the preceding (Wheel).

(Subgenus **NYLANDERIA** Emery)

- P. parvula** Mayr. **SI**: Long Neck, Arrochar, Tottenville, Watchogue (D&B); **LI**: Pinelawn, Wyandanch, Central Pk., Cold Sp. Harb. (D&B). Under stones in gravelly and sunny places (Wheel).  
**P. longicornis** (Latr.). NYC (D&B). Introduced.

**LASIUS** Fabricius <sup>169</sup>(Subgenus **LASIUS** Fabricius) <sup>170</sup>

(The members of this subgenus are not exclusively subterranean in habit.)

- L. niger** (L.) var. **americanus** Emery. Common everywhere. McLean (Wheel-CU); Ithaca; Slide Mt. (Beq); **SI**: Arrochar, Arlington, Watchogue, Long Neck, etc. (D&B); **LI**: Flatbush, Rockaway Beach, Maspeth, Brooklyn, Yaphank, Fire I., Gardiners I., Pinelawn, Wyandanch, Jamaica, Cold Sp. Harb. (D&B). The most abundant of ants and hence of all insects. Nests indifferently in rotten wood, under bark, logs, or stones, or in soil. Cultivates root aphids, but also visits the foliage of trees and bushes in search of aphids (Wheel).  
**L. niger** (L.) var. **neoniger** Emery. Otto; Ithaca (CU).

(Subgenus **CHTHONOLASIUS** Ruszky)

(These ants are exclusively subterranean, except for the mating flight. They cultivate root aphids and coccids [Wheel]).

- L. brevicornis** Emery. Ithaca; Bronxville (Wheel); **LI**: Long Beach, Yaphank (D&B).  
**L. flavus** (L.) subsp. **nearcticus** Wheel. (*myops* Forel). Ithaca; Garrison (Ckl); **LI**: Cold Sp. Harb. (D&B). The American representative of the European *flavus*. The colonies, which are rather small, are formed under stones on hill slopes and in pastures, where the soil is rather dry and sandy (Wheel).  
**L. umbratus** (Nyl.) subsp. **mixtus** Nyl. var. **aphidicola** Walsh. Ithaca, Bdy (Beq); McLean (Wheel); Cedar Hill, Albany (Beq); Richford Sps.; Bronxville (Wheel); **SI**: south shore, and Mariner's Harb. (D&B); **LI**: Gardiners I. (D&B); Bergen Beach, *VKrochow* (Beq). Populous colonies under stones, or in logs and stumps in damp shady woods (Wheel).  
**L. umbratus** (Nyl.) subsp. **minutus** Emery. McLean, *SRobinson* (Wheel-CU); **SI**: New Springville (D&B).

(Subgenus **ACANTHOMYOPS** Mayr)

(These are also subterranean, cultivating root aphids [Wheel]).

- L. interjectus** Mayr. Canandaigua L. (Beq); **SI**, found many times (D&B); **LI**: Coram (D&B). Nests in old logs and stumps in open woods, and occasionally makes rough mounds, or excavates its galleries under large stones (Wheel).  
**L. claviger** (Roger). Ithaca; Tarrytown (Beq); Bronxville (Wheel); Van Cort. Pk. (Beq); **SI**: Clove Val., Princess Bay, etc. (D&B); **LI**: Selden, Amagansett, Riverhead, Wading R., Gardiners I., Huntington, Flatbush, North Beach, Maspeth, Jamaica (D&B). Nests under stones along the margin of woods where there is plenty of warmth and moisture (Wheel).

<sup>169</sup> If the Erlangen List is accepted, the name *Lasius* will be replaced by *Acanthomyops* Mayr.

<sup>170</sup> If the Erlangen List is accepted, the name of the subgenus *Lasius* will be replaced by *Donisthorpea* Morice and Durrant.

**L. latipes** (Walsh). **SI:** Tottenville, and elsewhere (D&B); **LI:** Selden, Yaphank, Riverhead, Rockaway, West Hills, Wyandanch, Gardiners I., Cold Sp. Harb. (D&B).

**L. murphyi** Forel. Bronxville (Wheel); West Farms (Angus); **SI:** St. George, New Brighton, Clove Val., Watchogue (D&B); **LI:** Rockaway, Baldwin, Cold Sp. Harb. (D&B).

**FORMICA** Linnaeus <sup>171</sup>

(Subgenus **FORMICA** Linnaeus)

**F. sanguinea** Latr. subsp. **aserva** Forel. Wilmington, Mt. Whiteface, *Ds* (Beq); Mt. Skylight, Cliff Mt. (Beq); Rock City, *Ds* (Beq). One of the slave-makers.

**F. sanguinea** Latr. subsp. **rubicunda** Emery. Ithaca (Beq); Olivera, *Ds* (Beq); Slide Mt., *Ds* (Beq); Bronxville (Wheel); **LI:** Coram (D&B). A slave-maker, capturing *F. subsericea*. Nests under stones in grassy places along the edges of woods (Wheel).

**F. sanguinea** Latr. subsp. **subintegra** Emery. White Plains (Beq); Mosholu, Bronxville (Wheel); **SI:** New Brighton, Clove Val., Watchogue, etc. (D&B); **LI:** Yaphank, Half Way Hollow Hills, Riverhead, Pinelawn (D&B). Also enslaves *F. subsericea*.

**F. sanguinea** Latr. subsp. **subintegra** var. **gilvescens** Wheel. Tuckahoe (types). Elsewhere known only from Wis.

**F. truncicola** Nyl. subsp. **integra** Nyl. Keene Val., *Not* (Beq); Mt. Whiteface (Beq); Ithaca, DeBruce, E. Jewett, Olivera, *Ds* (Beq); Ashokan, *VKrochow*; High Bridge, West Farms (Angus); Mosholu (Wheel); Bronxville; **SI:** Richmond, Bradley's Road, Reed's Val., Great Kills (D&B); **LI:** Rockaway Beach, Riverhead, Yaphank, Wyandanch, Wading R., Half Way Hollow Hills, Long Beach, West Hills (D&B); Bergen Beach, *VKrochow* (Beq). Forms great colonies in piles of large stones, or in old logs or stumps, stuffing the crannies with dead grass and leaves. Prefers sunny glades or clearings in the forests of hilly regions (Wheel).

**F. truncicola** Nyl. subsp. **obscuriventris** Mayr. Ithaca (Beq); Saugerties, *VKrochow* (Beq); **LI:** Riverhead, Coram, Pinelawn, Wading R., Amagansett, Gardiners I., Cold Sp. Harb. (D&B). Under large stones in open woods, often banking the edges of the stones in the vegetable debris. The colonies are much smaller than those of the preceding (Wheel).

**F. truncicola** Nyl. subsp. **obscuriventris** var. **gymnomma** Wheel. **LI:** Cold Sp. Harb. (types).

**F. difficilis** Emery. Ithaca (Beq); Bronxville (Wheel); **SI:** Long Neck, Watchogue, Clove Val., etc. (D&B); **LI:** Coram, Gardiners I., Calverton, Yaphank, Selden, Orient Pt., Pinelawn, Half Way Hollow Hills, Wyandanch, Riverhead (D&B). Nests under stones, which it banks with vegetable detritus. Occurs sporadically in open woods from NY to N. Car. (Wheel).

**F. exsectoides** Forel. THE MOUND-BUILDING ANT OF THE ALLEGHENIES. Rock City, *Ds* (Beq); Ithaca; Slaterville (Bdy); Garrison-on-Hudson, *Ckll* (Beq); Olivera, *Ds*, Palenville (Beq); Ramapo Mts., Bronxville (Wheel); Southfields, *Schott* (Beq); West Farms (Angus); **SI:** Richmond, Kreischerville, Annadale, Mariner's Harb., Bradley's Road, Tottenville (D&B); **LI:** Wyandanch, Amagansett, Yaphank, Wading R., Selden, Montauk, Farmingdale

<sup>171</sup>A revision of the ants of the genus *Formica*. By William Morton Wheeler. *Bul. Mus. Comp. Zool.*, Harvard Univ., 1913, 53:379-565.



(D&B). Constructs domes three to four feet in diameter and one to two feet high, in open glades of wooded hilltops. These domes are often partly covered with growing grass.

- F. fusca** L. var. **fusca** L. Upper Ausable L., Cliff Mt. (Beq); Niagara Falls (Beq); McLean (Beq); Clinton Hgts. (Beq); Ramapo Mts. (Wheel). Nests under stones or logs, or in rude craters or small earthen mounds (Wheel).
- F. fusca** L. var. **subsericea** Say. Wilmington, *Ds* (Beq); Portageville, *Ds* (Beq); Ithaca, Dryden L., Danby Hills (Beq); McLean (Bdy-CU); Greenville (Wheel); Garrison-on-Hudson (Ckl); Saugerties, *VKrochow* (Beq); Kiamesha, *Brues* (Beq); DeBruce, *Ds* (Beq); Mosholu, Bronxville (Wheel); White Plains (Beq); Central Pk., NYC, *VKrochow* (Beq); **SI**, very common (D&B); **LI**: Bergen Beach, *VKrochow* (Beq); Flatbush, Central Pk., Wading R., Gardiners I., Wyandanch, West Hills, Amagansett, Yaphank, Flushing, Cold Sp. Harb. (D&B). A very abundant ant. Prefers open sunny places, and may construct mounds or build under stones, etc. The host of many slave-making species.
- F. fusca** L. var. **gelida** Wheel. Cliff Mt., Redfield Mt. (Beq). "The most stenothermal and alpine of all our forms of *fusca*. Nests in rather small colonies under stones or in logs in woods at high altitudes, just below 'timberline' (Wheel).
- F. fusca** L. var. **argentea** Wheel. Essex Co; Gloversville; Ithaca. Belongs to the colder part of the Transition zone (Wheel).
- F. fusca** L. var. **subaenescens** Emery. Ithaca, *Bdy* (Beq); Bedford (Wheel). A rare species, nesting under logs and stones in shady woods.
- F. neogagates** Emery. Niagara Falls, Ithaca (Beq); Kiamesha, *Brues* (Beq); **LI**: Gardiners I., Cold Sp. Harb. (D&B). In small colonies under stones, on hills at an altitude of 1000 ft. or more (Wheel).

(Subgenus **NEOFORMICA** Wheeler)

- F. pallidefulva** Latr. subsp. **pallidefulva**. Ithaca; White Plains (Beq); Bronxville (Wheel). A southern form, very rare as far north as this State.
- F. pallidefulva** Latr. subsp. **schaufussi** Mayr. Ithaca, Karner (Beq); W. Nyack (Beq); Bronxville, Mosholu (Wheel); **SI**, common (D&B); **LI**: Pinelawn, Amagansett, Yaphank, Wading R., Wyandanch, Gardiners I. (D&B). A common species, nesting in small colonies under stones or in small obscure mound-nests in sunny and grassy fields.
- F. pallidefulva** Latr. subsp. **schaufussi** Mayr var. **incerta** Emery. Niagara Falls (Wheel); Albany, White Plains (Beq); Tuckahoe (Wheel); Bronxville (Wheel); West Farms (Angus); **SI**: Todt Hill (D&B); **LI**: Wyandanch, Hempstead, Smithtown (D&B). Common in the same situations as the preceding (Wheel).
- F. pallidefulva** Latr. subsp. **nitidiventris** Emery. Clifton Sps.; Ithaca; W. Danby; Mosholu, Bronxville (Wheel); **SI** (D&B); **LI**: Amagansett; Calverton, Southold, Gardiners I., Montauk, Cold Sp. Harb. (D&B). Habits similar to those of the preceding species.
- F. pallidefulva** Latr. subsp. **nitidiventris** var. **fuscata** Emery. Bronxville (Wheel); **SI**: Todt Hill (D&B); **LI**: Wyandanch, Amagansett, Gardiners I., Central Pk., Montauk (D&B). Rarer than any of the other forms, nests only in woods, usually in hilly country (Wheel).

## POLYERGUS Latreille

- P. lucidus** Mayr. THE SHINING SLAVE-MAKER. Ithaca, very rare (Bdy); White Plains, W. Nyack (Beq); Bronxville (Wheel); **LI**: Long Pond, Wading R. (D&B); Pinelawn; Selden. Aug-Sep. Enslaves *Formica schaufussi*.

CAMPONOTUS Mayr<sup>172</sup>

- C. castaneus** (Latr.). West Farms (Angus); **SI**, Je (D&B); **LI**: Central Pk. (D&B). Nests under stones and logs in small colonies.
- C. castaneus** (Latr.) subsp. **americanus** Mayr. Conesus L., *Ds* (Beq); Ithaca; Norton's Landing, Cayuga L. (SmHH); Ft. Montgomery, *Schott* (Beq); **SI**: New Brighton, and many other places (D&B); **LI**: Wyandanch, Yaphank, Half Way Hollow Hills, Wading R., Melville, Rockaway Beach, Pinelawn, Gardiners I., Cold Sp. Harb. (D&B).
- C. herculeanus** (L.) var. **whymperi** Forel. Cliff Mt., 3000 ft. (Beq).
- C. herculeanus** (L.) subsp. **pennsylvanicus** DeG. THE CARPENTER ANT. Saranac L., Big Moose, Keene Val., Oswego (Beq); Turin, *Lucy Armstrong* (Beq); Batavia, Portage, *Ds* (Beq); Rock City, *Ds* (Beq); Ithaca (Beq); McLean (Bdy); Nassau, Cedar Hill (Beq); Olivera, Slide Mt., *Ds* (Beq); Garrison-on-Hudson (Ckl); White Plains (Beq); W. Nyack, *Ols* (Beq); Bronxville (Wheel); West Farms (Angus); **SI**, common (D&B); **LI**: Central Pk., Yaphank, Fire I., Smithtown, Gardiners I. Southold, Huntington Sps., Cold Sp. Harb. (D&B). Abundant in all woodlands, nesting in solid dead wood.
- C. herculeanus** (L.) subsp. **pennsylvanicus** DeG. var. **ferrugineus** Fab. Mosholu, Bronxville (Wheel); Ft. Montgomery, *Schott* (Beq); West Farms (Angus); Manhattan, NYC, *Ds* (Beq); **SI**: Watchogue, Clove Val. (D&B); **LI**: Richmond Hill, Jamaica, Wyandanch, Yaphank, Amagansett, Coram, Melville, Wading R., Southold, Cold Sp. Harb., Half Way Hollow Hills, Smithtown (D&B); Forest Pk., *VKrochow* (Beq). Of similar habits to the preceding, but less common (Wheel).
- C. herculeanus** (L.) subsp. **pennsylvanicus** DeG. var. **noveboracensis** Fitch. L. Tear, Cliff Mt. (Beq); Keene Val., Elizabethtown, Saranac L., *Ds*, Boonville, *Titus* (Beq); Wilmington, *Ds* (Beq); Plattsburg (Beq); Orleans Co, Pulaski, *Ds* (Beq); Batavia, Genesee Co (Beq); Rock City, *Ds* (Beq); Potter Swamp (Beq); Ithaca (Beq); Tarbel, W. Danby, McLean, *Ds* (Beq); Karner, Cedar Hill (Beq); Olivera, Callicoon, Slide Mt., E. Jewett, *Ds* (Beq); West Pt., DeBruce, *Ds* (Beq). Of similar habits to the two preceding species.
- C. caryae** (Fitch) (*fallax* Nyl. var. *nearcticus* Emery). Wilmington, *Ds* (Beq); Honeoye Falls, *Ds* (Beq); Niagara Falls, *Ds* (Beq); Batavia, *Ds*, Wyoming, *Ds* (Beq); Taughannock, Ithaca, *Ds* (Beq); Ithaca (Beq); Albany (Beq); White Plains, *Bno* (Beq); Valhalla, *Schott* (Beq); West Farms (Angus); Bronx Pk. (Beq); **SI**: Long Neck, Tottenville, etc. (D&B); **LI**: Brooklyn, Queens, Wading R., Yaphank, Gardiners I., Riverhead, Pinelawn, Amagansett, Orient Pt., Central Pk., Half Way Hollow Hills, Cold Sp. Harb. (D&B). Wheeler says that this ant seems to be associated with pine trees.
- C. caryae** (Fitch) var. **minutus** Emery. **SI**: Long Neck, Clove Val., etc. (D&B); **LI**: Melville, Jamaica, Central Pk., Massapequa, Yaphank, Amagansett, Wading R., Coram (D&B). Nests in dead twigs of oak.
- C. caryae** (Fitch) var. **pardus** Wheel. White Plains, Mosholu (Wheel); Bronxville (Wheel); West Farms (Angus); **LI**: Queens, Jamaica (D&B).

<sup>172</sup> The North American ants of the genus *Camponotus* Mayr. By William Morton Wheeler. Ann. N. Y. Acad. Sci., 1910, 20: 295-354.

## FAMILY BETHYLIDAE

## PARASIEROLA Cameron

**P. cellularis** (Say). Spring Lake, J1 23 (Fouts-CU); Ithaca (Fouts-CU).

## PLASTANOXUS Kieffer

**P. chittendeni** (Ashm.). Ithaca, *Chitt* (type-US). From *Cis fuscipes* Melsh. in fungus.

## PRISTOCERA Klug

**P. armifera** (Say). White L., *Zab* (AM); **LI**: Flatbush, *Zab* (AM); Yaphank, May 8, *Ds* (Beq).

FAMILY VESPIDAE<sup>173</sup>

Compiled by JOSEPH BEQUAERT

## SUBFAMILY ZETHINAE

## ZETHUS Fabricius

**Z. spinipes** Say. **LI**: Gardiners I., *Ds*; Cold Sp. Harb., *Brues*. The Gardiners I. specimen appears to belong to var. *substrictus* Hald.

## SUBFAMILY EUMENINAE

## EUMENES Latreille

**E. fraterna** Say. New Russia, *Bdy* (CU); Trenton Falls, *Leon*, *Fbs* (CU); Spring Lake, *Bdy* (CU); Ithaca, McLean (CU); Manlius, *SmHH* (CU); Oliveria; White Plains; **SI**; **LI**: Long Beach; Central Pk.; Gardiners I.; Orient Pt.; Springs; Hempstead Plains, Wyandanch, *Schott*; Wading R., *Eng*; West Hills, Riverhead, Rockaway Beach, Yaphank, *Ds*.

**E. globulosa** Sauss. New Russia, *Bdy* (CU); Keene Val., *Not*; Potsdam; Manlius, *SmHH* (CU); Ithaca (CU); McLean; Oliveria (Beq).

**E. verticalis** Say. **LI**: Rockaway Beach, *Schott*.

## PACHYMENES Saussure

**P. symmorphus** (Sauss.). Ithaca, *Bdy*; White Plains; W. Nyack.

## MONOBIA Saussure

**M. quadridens** (L.). White Plains; **SI**, *Ds*; **LI**: Wading R., *Eng*; Orient Pt.; Aqueduct, *Eng*; Wyandanch, *Schott*; Sands Pt., *Bs*; Flushing, *Schott*; Gardiners I.; Yaphank; Farmingdale, *Morrow* (CU).

## ANCISTROCERUS Wesmael

(Subgenus ANCISTROCERUS Wesmael)

**A. albophaleratus** (Sauss.). Keene Val., *Not*; Potsdam; Cranberry L., *Drk*; Ithaca, *Bks*; Oliveria.

**A. birenimaculatus** (Sauss.). **LI**: Massapequa, *Ds*; Flushing, *Bell*.

**A. campestris** (Sauss.). Cattaraugus (CU); Ithaca; **SI**, *Ds*.

**A. capra** (Sauss.). New Russia, *Bdy*; Wilmington, *Ds*; Keene Val., *Not*; Indian L., *Brb*; Cranberry L., *Drk*; Potsdam; Honeoye Falls (CU); Cattaraugus

<sup>173</sup> All records in this family not otherwise indicated have been verified by Dr. Bequaert.

(CU); Elmira, *Diven*; Ithaca, *Bdy*; McLean (CU); Manlius, *SmHH* (CU); Rhinebeck, *Cy* (CU); Big Ind. Val.; E. Jewett; Oliverea; Debruce, *Ds*; Ft. Montgomery, *Schott*; Southfields, *Schott*; West Pt., *Ds*; **SI**; **LI**: Cold Sp. Harb.; Long Beach; Gardiners I.; Sea Cliff, *Bks*; Rockaway Beach, Long Pond, Wading R., Aqueduct, *Ds*.

**A. catskillensis** (Sauss.). Keene Val., *Not*; Potsdam; Wilmington; Manlius, *SmHH*; Portageville; L. Keuka; Ithaca; McLean; West Pt., *Ds*; Rocky Glen; Oliverea; W. Nyack; **LI**: Riverhead; Cold Sp. Harb.; Jamaica; Sea Cliff, *Bks*; Forest Hills.

**A. parietum** (L.). Ithaca; **LI**: Flatbush, *Schott*.

**A. pertinax** (Sauss.). Described from New York State. Unknown to me. H. de Saussure has doubtfully synonymized it with *A. tigris*. (Beq.)

**A. spinolae** (Sauss.). **LI**: Long Beach; Yaphank, *Ds*.

**A. tigris** (Sauss.). Keene Val., *Not*; New Russia, *Bdy*; Manlius, *SmHH*; Albion; Portage, *Ds*; Rock City; Otto; Ithaca, *Bdy*, *Morse*; Taughannock; Homer; McLean; Center Lisle; Oliverea; Kaaterskill High Peak, *Morse*; West Pt., *Ds*; Ft. Montgomery, *Ds*; Rhinebeck, *Cy*; W. Nyack; **SI**, *Ds*; **LI**: Springs; Gardiners I.; Cold Sp. Harb.; Central Pk.; Riverhead; Long Pond, Wading R., Pennequin Barrens, *Ds*.

**A. unifasciatus** (Sauss.). Keene Val., *Not*; Mt. Marcy; Otto (CU); Ithaca, *Bdy*; Spring Lake, *Bdy* (CU); Kinderhook; Nyack, *Ds*; **SI**: Eltingville, *Ds*; **LI**: Cold Sp. Harb.; Orient; Roslyn, *Bks*; Sea Cliff, *Bks*.

**A. waldenii** (Vier.). Ithaca, *Bdy*; Manlius, *SmHH* (CU); W. Danby; Ft. Montgomery, *Schott*; Ramapo, *Ds*.

(Subgenus **PARANCISTROCERUS** Bequaert)

**A. clypeatus** (Robt.). Otto; Rhinebeck, *Cy*; **LI**: Long Pond, Wading R., *Ds*.

**A. fulvipes** (Sauss.). **SI**: Emerson Hill, *Jl*, *Ds* (Beq.).

**A. proximus** (Sauss.). Rock City; Ithaca; W. Danby; Caroline to Harford; Thousand Isls.; Rocky Glen; Rhinebeck, *Cy*; W. Nyack; Ft. Montgomery, *Ds*; **SI**: Tottenville, *Ds*; **LI**: Deep Pond, Long Pond, Wading R., *Ds*; Yaphank, *Ds*; Gardiners I.; Springs; Orient; Central Pk.

**SYMMORPHUS** Wesmæl

**S. albomarginatus** (Sauss.). Ausable L.; Potsdam, *Bdy*; Slaterville, *Bdy*; Ithaca; Caroline to Harford; Mud Cr.; Oliverea, *Ds*; Ft. Montgomery, *Schott*.

**S. canadensis** (Sauss.). Otto; Ithaca.

**S. debilis** (Sauss.). Keene Val., *Not*; Mt. Whiteface; Ithaca, *Bdy*; Mud Cr.; Caroline to Harford; McLean (Bdy-CU); Spencer; W. Nyack; **LI**: Gardiners I.

**S. philadelphiae** (Sauss.). Rock City; Ithaca; Slaterville to Caroline; **SI**: Ft. Wadsworth, *Ds*.

**S. walshianus** (Sauss.). Ithaca, *Bdy*.

**ODYNERUS** Latreille

(Subgenus **RYGCHIUM** Spinola)

**O. arvensis** Sauss. Cattaraugus; **SI**.

**O. boscii** Lep. NY State, according to H. de Saussure. I have seen it from N.J. (Beq.).

- O. dorsalis** (Fab.). White Plains: Inwood, NYC, *Jl*, *Schott*; **LI**: Brooklyn, *Eng*; Canarsie, *Wiegmann*; Sands Pt., *Ds*; Flatbush, *Eng*; Jamaica, *Schott*.
- O. foraminatus** Sauss. Potsdam; Peru; New Russia; Manlius, *SmHH*; Cattaraugus; Spring Lake; Ithaca, McLean, *Bdy*; Spencer; Norton's Landing, Cayuga L., *SmHH*; Ft. Montgomery, *Schott*; White Plains; W. Nyack; Inwood, NYC, *Schott*; **SI**: Great Kill, *Ds*; Tottenville; **LI**: Flushing; Gardiners I.; Mastic; Aqueduct, *Ds*; Yaphank, Wading R., *Ds*; Orient; Cold Sp. Harb.
- O. hidalgi** Sauss. **LI**: Orient Pt.; Cold Sp. Harb.
- O. leucomelas** Sauss. Caroline to Harford; Coy Glen, Ithaca, Je, *Ds*; White Plains.
- O. megaera** Lep. **SI**: Clove Val., *Ds*.

(Subgenus **STENODYNERUS** Saussure)

- O. anormis** (Say). Manlius, *SmHH*; Cattaraugus; Ithaca; **LI**: Wyandanch, *Schott*
- O. conformis** Sauss. NY, according to H. de Saussure. Unknown to me (Beq).
- O. illinoensis** Robertson. Ithaca; West Pt., *Ds*; White Plains.
- O. pedestris** Sauss. Peru; Manlius, *SmHH*; Ithaca; Nyack, Ft. Montgomery, *Ds*; W. Hebron, *Ds*; White Plains; **SI**, *Ds*; **LI**: Gardiners I.; Cold Sp. Harb.; Central Pk.; Orient; Flushing, *Eng*.
- O. pennsylvanicus** Sauss. NY, according to H. de Saussure. Unknown to me (Beq).
- O. perennis** Sauss. NY, according to H. de Saussure. Unknown to me (Beq).
- O. vagus** Sauss. NY, according to H. de Saussure. I have seen it from N.J. and Vt. (Beq).
- O. zendaloides** Robertson. **LI**: Mastic, *Nichols*; Cold Sp. Harb., *Ds*.

## (Subgenus uncertain)

- O. mohicanus** Sauss. Described from NY by de Saussure. Unknown to me (Beq).

SUBFAMILY **POLISTINAE****POLISTES** Latreille

- P. canadensis** (L.) var. *annularis* (L.). Ft. Montgomery, *Schott*; Hillburn, *Schott*. A specimen was taken years ago by *Ds* on **SI**, but I have never seen this species near NYC (Beq).
- P. pallipes** Lep. (*metricus* Say, *variatus* Say). Keene Val., Castile, *EABradley*; Taughannock, *Guerlac*, *Bdy*; Ithaca, abundant, *Bdy*; Oliverea; Yorktown Hgts., *Ols*; Southfields, *Schott*; W. Nyack; NYC; **SI**; **LI**: Orient Pt.; Gardiners I.; Wyandanch, Little Neck, *Schott*; Mastic, *Nichols*; Bay Shore, Kissena Pk., *Ols*.

SUBFAMILY **VESPINAE****VESPA** Linnaeus(Subgenus **VESPA** Linnaeus)

- V. crabro** L. EUROPEAN HORNET. Rye, *Felt*; Poughkeepsie; Nyack; W. Nyack; White Plains, *Bno*; Mahopac; Brewster; Yonkers; West Farms, *Edw*; Van Cort. Pk.; **SI**, *Ds*; **LI**: Brooklyn; Jamaica; Flatbush; Flushing; Bay Shore; Mineola; Far Rockaway. Introduced from Europe; gnaws twigs of various



trees, especially birch, and is sometimes injurious to lilac. Generally selects a hollow tree or an attic in which to nest.

(Subgenus **VESPULA** Thomson)

**V. carolina** L. Pelham Parkway; **SI**, Je 3, *Ds*; **LI**: Rockaway Beach, Sep 20, *Schott*. An austral species, practically reaching its northern limit in N.J.

**V. maculifrons** Buy. (*communis* Sauss.). Upper Ausable L.; New Russia, *Bdy*; Cranberry L., *Drk*; Keene Val, *Not*; Ithaca, Clifton Sps. (CU); McLean, *Bdy* (CU); Spencer (CU); Taughannock, *Guerlac* (Bdy); Shelving Rock Mt., L. George, *Leon*; Olivera; W. Nyack; Yorktown, *Ols*; Hillburn, *Schott*; Van Cort. Pk.; **LI**: Rockaway Beach, Bay Shore, *Ols*; Jamaica; Flushing; Gardiners I.; Port Jefferson; Coram; Queens, *Schott*; Wading R.; Riverhead. An extremely common wasp, known as *yellow-jacket*.

*V. vulgaris* L., *V. germanica* Fab., and *V. occidentalis* Cress. do not occur in the eastern US. All specimens under those names in collections are *V. maculifrons*. Bequaert writes: "I have found underground nests of both *V. communis* and *V. diabolica*; they are generally not at a great depth, and when the cavity chosen is small, part of the nest eventually is more or less exposed; often it is merely covered above by dry leaves or dense grass. Of both species I have seen nests in a hole of a dead tree stump."

**V. consobrina** Sauss. New Russia, *Bdy*; Saranac L., Axton (M&H); Moose L.; Upper Ausable L.; Keene Val., *Not*; South L.; Lowville, *Ds*; Mt. Skylight; McLean; Shelving Rock, L. George, *Leon*; Olivera; DeBruce, *Ds*; Ft. Montgomery, *Schott*; Stony Pt. Nests under the ground (Beq.).

**V. vidua** Sauss. Cliff Mt., Essex Co; Ithaca (CU); New Baltimore; Ft. Montgomery, *Schott*; W. Nyack, *Ds*; **SI**; **LI**: Huntington, Wyandanch, *Schott*; Jamaica; Bay Shore, *Ols*; Central Pk.; Merrick, *Eng*; Coram, *Ds*; Wading R., Yaphank, *Ds*. Not a common species.

(Subgenus **DOLICHOVESPULA** Rohwer)

**V. arctica** (Roh.) (*borealis* Lewis). Keene Val., *Not*; Castile, *EABradley*; Ithaca, Newfield; Olivera; **SI**, *Ds*. Lives as an inquiline in the nest of *V. diabolica*.

**V. diabolica** Sauss. Upper Ausable L.; Keene Val., *Not*; Manlius, *SmHH*; N. Fair Haven (CU); Geneva; Castile, *EABradley*; Conesus L., *Ds*; Ithaca; McLean; Newfield; Norton's Landing, Cayuga L., *SmHH*; W. Danby (CU); Olivera; Ft. Montgomery, *Schott*; Nyack; Inwood, NYC, *Schott*; **SI**, *Ds*; **LI**: Cold Sp. Harb. A very common species, known as *yellow-jacket*. For nesting habits, see under *V. maculifrons*. But *diabolica* also builds aerial nests similar to those of *V. maculata*, often about the eaves of buildings.

**V. maculata** L. Axton (M&H); New Russia, *Bdy*; Upper Ausable L.; Keene Val., *Not*; Ithaca; McLean; Otto; L. George; Olivera; Yorktown Hgts., *Ols*; **SI**, *Ds*; **LI**: Little Neck, Wyandanch, *Schott*; Hempstead, *Ols*; Flushing; Cold Sp. Harb.; Gardiners I.; Jamaica; Queens, *Schott*. Probably occurs at all points in the State and is everywhere abundant. Builds strictly aerial nests in trees, under porches, in barns, etc. (Beq.).

**V. norwegica** Fab. Mt. Marcy, 3000 ft.; Upper Ausable L.; Keene Val., *Diven*; Olivera. Generally builds a nest similar to that of *diabolica*, but placed in low, dense bushes, four to five inches above the ground (Beq.).

(Subgenus **PSEUDOVESPA** Schmiedeknecht)

**V. austriaca** Panz. **SI**, *Hinc*.

*Superfamily* **SPHECOIDEA**FAMILY **AMPULICIDAE**

So far as their habits are known, the species of this family utilize crevices or crannies of some sort for their nests, stocking them with imperfectly paralyzed cockroaches.

**RHINOPSIS** Westwood

- R. canaliculata** (Say). **LI**: Central Pk., Aug 13, 1913, Yaphank, Sep 4, 1910, *Ds* (Beq). An extremely rare insect.

FAMILY **DRYINIDAE****BOCCHUS** Ashmead

- B. atriceps** Brues. Mosholu, J1 25 (Bno) (type); **LI**: Flatbush, J1 27, *Zab* (AM).

**PSILODRYINUS** Kieffer

- P. nigrellus** (Brues). **LI**: Parkville, *Bt* (type-AM).

**GONATOPUS** Ljungh

- G. flavifrons** Ashmead. Albany, *EPV* (type-US).  
**G. contortulus** Patton. Black Br., Je 21 (Mues-CU).

**CHELOGYNUS** Haliday

- C. henshawi** Ashmead. Ithaca, Je 28, *Yuasa* (Bdy-CU).  
**C. vivariensis** Bdy. McLean, J1 26, 1925, *SRobinson* (type-CU).  
**C. xanthothorax** Bdy. Taughannock Falls, *Guerlac&Bdy* (type-CU); Penn Yan, J1 12, 1925, *Babiy* (paratype-CU).

FAMILY **SPHECIDAE**<sup>174</sup>SUBFAMILY **LARRINAE**Tribe **ASTATINI****ASTATA** Latreille

(The members of this genus burrow in the ground and provision their nests with Pentatomidae.)

- A. unicolor** Say. Manlius, Sep 20, *SmHH* (Cress-CU); Honeoye Falls, J1 23 (Bdy-CU); Albion (Bdy-CU); Canandaigua L., Je (NYS); Ithaca, J1 14 (Bdy-CU); Slaterville (Bdy-CU); Karner, Sep (NYS); Nyack, Mosholu (AM); Pelham Bay Pk., Aug 20 (Bdy-CU); **LI**: Queens, J1 21 (Schott); Cold Sp. Harb., Fishers I. (AM).  
**A. bicolor** Say. Rochester Jct., J1 15 (Bdy-CU). A southern species.

<sup>174</sup> The manuscript for this family was submitted to Messrs. Banks, Bequaert, and Rohwer, who added many records. H. T. Fernald furnished records in the Sphecinae, and is responsible for the nomenclature and most of the records in the genus *Sphex*.

## Tribe LARRINI

(The members of this tribe burrow in sandy soil, and provision their nests with Orthoptera. A few small species build nests in brambles.)

## LARRA Fabricius

*L. analis* Fab. "NY" (Fox). A southern species.

## NOTOGONIDEA Rohwer

*N. argentata* (Pal. de Beauv.). Ithaca, J1 16 (Bdy-CU). Occurs from the Atlantic to the Pacific, but chiefly southern. Provisions its nest with crickets.

*N. nigripennis* (Fox) (*aequalis* Fox). "NY", type.

## LARROPSIS Patton

*L. distincta* (Sm.). Ithaca, Aug 9-Sep 12 (Bdy-CU); Oliveria, W. Nyack (Beq); **SI** (Beq); **LI**: Springs, Cold Sp. Harb., Huntington, Gardiners I. (Beq); Forest Hills, Sep 11 (Bdy-CU); Wyandanch, Sep 17 (Schott).

## TACHYTES Panzer

*T. mandibularis* Patton. Ithaca, J1 14 (Bdy-CU); White Plains (Beq); **SI** (Beq); **LI**: Bay Shore, Wyandanch, Rosedale, *Schott* (Beq). Chiefly austral.

*T. breviventris* Cress. Forest Hills, Sep 11 (Bdy-CU). An austral species.

*T. columbiae* Fox. Ithaca, Aug 1 (Bdy-CU). An austral species.

*T. propinquus* Rohw. Van Cort. Pk. (paratype-Milwaukee Mus.).

*T. calcaratiformis* Rohw. Van Cort. Pk. (types-Milwaukee Mus.).

## TACHYSPHEX Kohl

*T. tarsatus* (Say). Ithaca, J1 9-Sep 21 (Bdy-CU); **LI**: Orient (Beq).

*T. terminatus* (Sm.). Ithaca, Aug-Sep 8 (Bdy-CU); Norton's Landing, on Cayuga L., J1 1-14, *SmHH* (Cress-CU); Union Sps., Sep 20, *And* (Bdy-CU); Trenton Falls, *SaundersWW* (F.Sm-Brit. Mus.); Rochester Jct., Je 16, *Leon* (Bdy-CU); **LI**: Pennequid Barrens, Orient (Beq). Provisions its nest with small and medium-sized nymphs of grasshoppers, especially of *Syrbula admirabilis* Uhl., according to the Raus.

## Tribe DINETINI

(The habits of these species are similar to those of the preceding tribe.)

## SILAON Piccioli

*S. niger* Roh. **LI**: Yaphank, *Ds* (Beq). Nests in elder stems according to the Raus.

## SOLIERELLA Spinola

*S. plenoculoides* (Fox) (*Niteliopsis*). "NY", type.

## PLENOCULUS Fox

**P. allanticus** Vier. **LI**: Cold Sp. Harb. (Beq).

## LYRODA Say

**L. subita** (Say). Keene Val. (Beq); Piseco L., Aug (NYS); Ithaca, Je 27-Sep 20, common (Bdy-CU); White Plains (Beq); **LI**: Jamaica (Beq). Provisions its nests with crickets of the genus *Nemobius*.

## SUBFAMILY TRYPOXYLONINAE

## TRYPOXYLON Latreille

(The species of this genus provision their nests with spiders. Most species build in twigs and stems, but some burrow in posts; one species builds clay nests; another utilizes deserted nests.)

**T. albopilosum** Fox. Ithaca, Jl 19-Aug 14 (Bdy-CU); Albany, Aug (NYS); **SI**, Sep 26, *Ds* (Ashm); **LI**: Huntington, Jl 9 (Schott); Sea Cliff, Jl 29-Aug 25 (Bks); Greenport, Flatbush, *Eng* (Beq); Rosedale, *Schott* (Beq); Yaphank, *Ds* (Beq); Gardiners I. (Beq).

**T. bidentatum** Fox. Essex Co., Wilmington, Aug 20-25 (Bdy-CU); Shelving Rock Mt., Sep 2 (Bdy-CU); Ithaca, May 30 (Bdy-CU); McLean, Aug, *SRobinson* (Bdy-CU); **LI**: Sea Cliff (Bks); Orient (Beq). An essentially Canadian species.

**T. carinatum** Say. **LI**: Sea Cliff (Bks).

**T. clavatum** Say. Ithaca, Aug 18 (Bdy-CU); Albany, Jl (NYS); West Farms (Pck); **SI**, *Ds* (Beq); **LI**: Cold Sp. Harb., Wading R. (Beq); Huntington, Brookhaven, *Schott* (Beq). Utilizes the abandoned nests of mud-daubers, remodeling, partitioning, and resealing them. Can also burrow into wood and make its own nests, according to the Raus.

**T. excavatum** Sm. "NY" (Fox).

**T. frigidum** Sm. Keene Val., *Not* (Beq); Old Forge, Jl, Newport, Jl, Ilion, Jl, Karner, May, *Yg* (NYS); Ithaca, common, Je 10-Aug 4, Slaterville (Bdy-CU); Norton's Landing, on Cayuga L., *SmHH* (Cress-CU); McLean, Aug 20-31, *SRobinson* (Bdy-CU); W. Nyack (Beq); West Farms (Angus), reared from stems of *Syringa*; **LI**: Sea Cliff (Bks); Cold Sp. Harb., Central Pk., Gardiners I. (Beq). Very common inhabitant of elder stems.

**T. politum** Say (*albitarse* auctt.). Karner, *Ds* (Beq); Clinton Hgts., Ap (NYS); **SI**, *Ds* (Ashm). A common austral species. This species builds large "pipe-organ" nests, consisting of parallel tubes of mud attached to walls, etc., and provisions them with spiders.

**T. rubrocinctum** Pck. Honeoye Falls, Je 27, *Leon* (Bdy-CU); Ithaca, Jl 14-Aug 30; W. Nyack (Beq); **SI**, *Ds* (Ashm); **LI**: Sea Cliff (Bks); Gardiners I. (Beq).

## SUBFAMILY SPHECINAE

CHLORION Latreille<sup>175</sup>

(The species of this genus burrow in the ground and store their nests with grasshoppers. They are large and handsome wasps and are common visitors of flowers during the late summer.)

<sup>175</sup> The digger-wasps of North America and the West Indies belonging to the subfamily Chlorioninae. By Henry T. Fernald. *Proc. U. S. Nat. Mus.*, 1906, 31: 291-423.

(Subgenus **CHLORION** Latreille)

- C. cyaneum** Dahlbom subsp. **aerarium** Patt. **SI**, J1, *Ds* (Beq); **LI**: Flatbush, Aug 2, *Zab* (Bdy-AM); Wading R., *Ds* (Beq); Cold Sp. Harb., Jamaica, *Ds* (Beq).

(Subgenus **PALMODES** Kohl)

- C. dimidiata** (DeG.) (*abdominalis* Cress.). Ludlowville (Fern). An austral species.

(Subgenus **PRIONONYX** Dahlbom)

- C. atratum** (Lep.). Dansville, Sep 10 (Fern-CU); Cattaraugus, Sep 11 (Bdy-CU); New Baltimore, Nyack (AM); West Farms, *Angus* (Fern); **SI**, J1 29, *Ds* (Beq); **LI**: Gardiners I. (Beq); Cold Sp. Harb., Fishers I. (AM); Southold, Sep 6, *Ds* (Beq). Common and generally distributed over the US from Me. and Canada southward and westward.
- C. bifoveolatum** (Tasch.). Ithaca, Je-J1 (Fern-CU); **SI** (Beq); **LI**: Flushing (AM); Rockaway, *Ds* (Beq); Sea Cliff (Fern-CU); Orient (Beq). A widely distributed common southern species, extending northward well into NY and Mass.

(Subgenus **ISODONTIA** Patton)

- C. macrocephala** (Fox) (*astecum* [Sauss.]). Manhattan I., Sep 2, *Ds* (Beq); **LI**: Flatbush, J1 30, *Zab*, Yaphank, J1 12 (Bridwell-AM). A scarce austral species, not known from north of LI.
- C. auripes** Fernald. New Baltimore, NYC (Bridwell-AM); White Plains (Beq); Nyack, West Farms, *Angus* (Fern); **SI** (Beq); **LI**: Flatbush, Cold Sp. Harb. (Bridwell-AM). A rather common austral species, not known from north of the Catskills.
- C. harrisii** Fern. Ogdensburg, White L. (Bridwell-AM); Rochester Jct., J1 4, *Leon* (Bdy-CU); Long L., Aug, *Felt* (NYS); Canandaigua L., J1, Karner, Je, *Felt* (NYS); L. George (Fern); Ithaca, J1 22 (CU), J1 19, 1887 (Fern); White Plains (Beq); New Baltimore, Nyack, West Farms (Bridwell-AM); **LI**: Flatbush, Cold Sp. Harb. (Bridwell-AM); Flatbush, Cold Sp. Harb., Orient, Gardiners I., Wyandanch (Beq).

(Subgenus **AMMOBIA** Billberg)

- C. icheumoneum** (L.). Keene Val. (Beq); New Russia, Aug 18 (Bdy-CU); Albany, J1, *Felt* (NYS); New Baltimore, Crugers, L. George, Nyack, Carmel, West Farms, Mosholu (AM); White Plains (Beq); **SI**, J1-Aug, *Ds* (Beq); **LI**: Cold Sp. Harb., Flushing (AM); Fishers I. (NYS); Springs, Jamaica, Rosedale, Orient, Gardiners I. (Beq). Distributed over nearly the entire US, from Canada southward and also over North America. More abundant in the Austral zone and scarce in the Transition zone.
- C. pennsylvanicum** (L.). Karner, Sep, *Felt* (NYS); Ramapo Mts., West Farms, Mosholu (AM); **SI**: Rossville, *Ds* (Beq); **LI**: Fishers I. (AM); Gardiners I., Aqueduct, Flushing (Beq).

**SPHEX** Linnaeus

(The members of this genus are common flying along roads, paths, and bare ground, in which they nest. They store their burrows with caterpillars. The habit of some of using a pebble as a mallet for pounding down the soil on their burrows, has drawn widespread attention to them.)



(Subgenus **SPHEX** Linnaeus)(*Ammophila* Kirby)

- S. arvensis** (Dahlb.). Keene Val. (Beq); Wilmington; Mt. Marcy (Beq); Piseco L. (Fern); Elk L. (Fern); Long L., L. Pleasant, Stony I., White L., Oswego, Otto, Clifton Sps., Ithaca, L. George (all Fern); Karner; Olivera (Beq); Van Cort. Pk. (Fern, Beq); **SI** (Beq); **LI**: Forest Pk. (Fern); Orient (Beq); Long Beach (Beq). This species usually goes as *urnarius* Klug. Present indications are that *urnarius* and *inepta* Cress. may be synonyms of *arvensis*, and that among the above records may be included a second valid species very similar to *arvensis*, to which none of these names can be properly applied (Fern). May-Sep.
- S. pictipennis** (Walsh). Ithaca (Fern); **SI** (Beq); **LI**: Farmington (Fern); Rockaway (Beq). *S. extremitata* has been included among these records as a probable synonym, but there is a possibility of there really being two species here (Fern). Jl-Oct.
- S. procerus** (Dahlb.). Keene Val. (Beq); Olivera (Beq); **LI**: (Fern); Wyandanch (Beq).
- S. aureonotatus** (Cam.). Keene Val., *Not* (Beq); Ithaca (Fern); Olivera (Beq); **LI**: Roslyn (Fern); Gardiners I., Springs, Cold Sp. Harb. (Beq). Jl-Aug. This species has usually, but incorrectly, been determined as *abbreviatus* Fab.; sometimes as *gracilis* St. Farg. (Fern).
- S. nigricans** (Dahlb.). Evidently generally distributed (Fern). Ithaca, Binghamton, Mosholu (Fern); White Plains (Beq); **SI** (Beq); **LI**: Cold Sp. (Fern); Jamaica (Fern, Beq); Sea Cliff (Fern); Orient (Beq). Aug-Oct.
- S. argentatus** (Hart). Albany, Je (Fern-NYS); Ithaca, Sep (Fern-CU); **LI**: Far Rockaway Beach, Aug, *Snn* (Fern).

(Subgenus **PODALONIA** Spinola)(*Psammodonta* Dahlbom)

- S. violaceipennis** (Lep.). Mt. Whiteface, Aug 22-24, New Russia, Aug 18 (Fern); Keene Val. (Beq); Taughannock, Jl 14 (Fern); **LI**: Mastic, Orient (Beq).
- S. luctuosa** (Sm.). Keene Val., *Not* (Beq); Norton's Landing, Cayuga L., *SmHH* (Fern-CU).

**SCELIPHON** Klug

(These are the well-known mud-daubers, which plaster their clay nests over walls and ceilings, provisioning them with spiders.)

(Subgenus **SCELIPHON** Klug)(*Pelopaeus* Latreille)

- S. coementarium** (Dru.). THE BLACK-AND-YELLOW MUD-DAUBER. Common and generally distributed, except possibly in the colder regions of the State. Color forms A, B, C, D, E (*nigriventre* Costa), and F (*coementarium*), are all represented by Ithaca specimens (Bdy-CU).

(Subgenus **CHALYBION** Dahlbom)

- S. cyaneum** Dahlb. THE BLUE MUD-DAUBER. With the foregoing, possibly more restricted to the warmer districts: Otto, Castile, Ithaca (Bdy-CU); Albany, etc.; common on **SI** and **LI** (Beq).

## SUBFAMILY PSENINAE

## Tribe PSENINI

## DIODONTUS Curtis not auctt.

(Neofoxia Viereck)

(Subgenus PSENULUS Kohl)

- D. trisulcus** (Fox). Otto, bred from nests in sumac stems, adults emerging May 18, Comstock (Bdy-CU).

## PSEN Latreille

(Subgenus PSEN Latreille)

- P. monticola** (Pck.). Ithaca, J1 18, 1922 (Bdy-CU), J1 7 (Bks).

(Subgenus MIMESA Shuckard)

- P. argentifrons** (Cress.). Ithaca, Aug 18, (Bdy-CU); Gloversville, Sep. (NYS). Nests in sandy places, and Williams has observed a cone of agglutinated sand grains surmounting the entrance; the nests are provisioned with leaf hoppers, Williams states of the species *Athysanus exitiosa* Uhler.
- P. borealis** (Sm). Enfield Falls, Sep 10 (Bdy-CU).
- P. cressoni** (Pck.). Niverville, Aug 24 (Bks).
- P. denticulata** (Pck.). "NY", Nort (Pck).
- P. johnsoni** (Vier.). Dryden L., Je 16, MacG (Bdy-CU).
- P. kohlii** Fox. LI: Gardiners I. (Beq).
- P. leucopus** Say. Ithaca, J1 16-Aug 9 (Bdy-CU).
- P. longicornis** Fox. Ithaca, J1 16 (Bdy-CU).
- P. mellipes** Say. "NY" (Fox).
- P. niger** Pck. Axton, Je 12-22, M&H (Ashmead-CU); Norton's Landing, Cayuga L., Je 13, SmHH (Cress-CU); LI: Long Beach (Beq).
- P. pauper** (Pck.). Albion (Bdy-CU); Hamburg, J1 19, MCV (Bks); Ithaca, Aug 23 (Bdy-CU); LI: Fishers I., Aug, Zab (AM).
- P. trisulcus** Fox. LI: Sea Cliff, Sep (Bks).
- P. unicincta** (Cress.). Ithaca, J1 5 (Bdy-CU).

## Tribe PEMPHREDONINI

## STIGMUS Panzer

(The members of this genus build in wood, two or three wasps building, in some cases at least, chambers near together, which have a common entrance gallery. They provision their nests with aphids.)

- S. americanus** Pck. Ithaca (Bks); McLean, Sep 16, 1924, Sib (Bdy-CU).
- S. fraternus** Say. L. Placid, Je, Yg (NYS); Silver Bay, Je, Yg (NYS); Elm L., Aug, Yg (NYS); Norton's Landing, Cayuga L., Je 4, SmHH (Cress-CU); Ithaca, J1, nest in pithy stem, adults emerged J1 22 (CU); McLean, Sep 16, 1924 (Bdy-CU); Albany, Aug, Yg (NYS); Rensselaer, Je, Yg (NYS); W. Nyack (Beq); Dobbs Ferry, J1, Yg (NYS); West Farms, Angus (Pck); LI: Gardiners I. (Beq); Sea Cliff, Je, Roslyn (Bks).

## PEMPHREDON Latreille

(The members of this genus build chiefly in decaying wood, provisioning their nests with aphids.)

(Subgenus **DIPHLEBUS** Westwood)

- P. bipartior** Fox. **LI**: Sea Cliff, Aug-Sep (Bks).  
**P. inornatus** (Say). L. Placid, Je, Elm L., Aug (NYS); Ithaca, J1 2-Aug 4 (Bdy-CU); Mud Cr., Je 17-20, MacG (Bdy-CU); Norton's Landing, Cayuga L., May 29-Je 3, *SmHH* (Cress-CU); Albany, Je, Dobbs Ferry, Je, *Yg* (NYS); Rensselaer, J1, *Yg* (NYS); **LI**: Flatbush, *Zab* (AM); Sea Cliff (Bks).  
**P. tenax** Fox. Ithaca, May 30-J1 25 (Bdy-CU); Mud Cr., Je 17-20, Slaterville to Caroline, Je 14, Dryden L., Je 16, MacG (Bdy-CU); McLean, Sep 20, *Sib* (Bdy-CU); Bear Mt., Je 2, *Schott* (Roh); **LI**: Sea Cliff (Bks); Flatbush (AM). The nests of this species have been observed by the Raus in elder stems, provisioned with an aphid, *Macrosiphum rudbeckiae* (Fitch).

(Subgenus **PEMPHREDON** Latreille)

- P. angularis** Fox. **LI**: Sea Cliff, Je (Bks).  
**P. concolor** Prov. Big Moose, Aug, Speculator, May, *Yg* (NYS); Newport, J1, *Yg* (NYS); Ithaca, Aug, *Yg* (NYS); Albany, Sep, *Yg*, *Lint* (NYS); Karner, May, *Yg* (NYS); Inwood, *Schott* (Beq); **SI**, May 30, *Ds.* (Ashm).

## PASSALOEUCUS Shuckard

(These wasps prefer rotten wood for their nesting site, or utilize the galleries of wood-boring insects, or hollow stems of plants, building clay cells within the cavity. They provision their nests with aphids.)

- P. annulatus** (Say). Ithaca, J1 10 (Bdy-CU); Mud Cr., Je 17-20, MacG (Bdy-CU); **LI**: Sea Cliff, J1 (Bks).  
**P. distinctus** Fox. Ithaca, Je 28 (Bdy-CU).  
**P. mandibularis** Cress. L. Placid, Je, *Yg* (NYS); Ithaca, Je 5-27 (Bdy-CU); Albany, Je, *Yg* (NYS); West Farms, *Angus* (AM); **LI**: Sea Cliff (Bks).

## SUBFAMILY BEMBECEINAE

## Tribe NYSSONINI

ALYSON Jurine<sup>176</sup>

- A. conicus** Prov. Wilmington, 1000-2200 ft., Aug 20-25 (Bdy-CU); Lancaster, Aug 15, *MCV* (Bks); Middletown, J1 2-20, *SpoonerCS* (Bdy-CU); Rhinebeck, J1 27, *Cy* (Bdy); Van Cort. Pk., J1 20 (Bdy-CU).  
**A. guignardi** Prov. Mud Cr., Je 17-20, MacG (Bdy-CU); McLean, J1 2-3 (Bdy-CU); Ithaca, J1 31 (Bdy-CU); **SI** (Beq).  
**A. melleus** Say. Ithaca, Aug 10-31 (Bdy-CU); **LI**: Wading R., Je 27, *Schott* (Rohwer). An essentially southern species. Builds, according to the Raus, always in a cool damp bank of mud or sandy clay near a body of water, but at least the surface of the sand may be hot and dry. Provisions its nest with leaf hoppers.

<sup>176</sup> If the Erlangen List is accepted, this name will have to be spelled "Alysson."

- A. oppositus** Say. Wilmington, Aug 20-25, 1000-2200 ft. (Bdy-CU); Old Forge, JI, *Yg* (NYS); Ithaca, JI 19 (Bdy-CU); **LI**: Sea Cliff (Bks).  
**A. striatus** Fox. Ithaca, JI 7 (Bks).  
**A. triangulifer** Prov. Ithaca, Je 23-Aug 14, Dryden L., Je 16, Mud Cr., Je 17-20, *MacG* (Bdy-CU).

## DIDINEIS Wesmael

- D. texana** (Cress.). Ithaca, JI 14 (Bdy-CU).

## MELLINUS Fabricius

- M. bimaculatus** Pck. "NY" (AM). This is a rare insect.

## GORYTES Latreille not auctt.

(*Hoplissus* Lepeletier)

(These wasps nest in sand or soil and provision their nests with leaf-hoppers.)

(Subgenus **PSEUDOPLISSUS** Ashmead)

- G. phaleratus** Say. New Russia, Aug 18 (Bdy-CU); Manlius, Aug 1-15, *SmHH* (Cress-CU); Potsdam, JI-Aug 14 (Beq-CU); Rochester Jct., JI 11, *Leon* (Bdy-CU); Ithaca, JI 14-Aug 6 (Bdy-CU); McLean, JI 18, 1921 (Bdy-CU); L. George, Aug 28, *Zab* (AM); New Baltimore, *Zab* (AM); Oliverrea (Beq); Nyack (AM); Stony Pt. (Beq); **SI**, *Ds* (Ashm, Beq); **LI**: Huntington (Beq); Flushing (AM).

(Subgenus **GORYTES** Latreille)

(*Hoplissus* Lepeletier)

- G. atricornis** Pck. Keene Val. (Beq); Ithaca, JI 4-21 (Bdy-CU).  
**G. canaliculatus** Pck. Newport, Je, *Yg* (NYS); Ithaca, JI 17 (Bdy-CU).  
**G. costalis** Cress. **LI**: Cold Sp. Harb., JI 23 (Bridwell-AM).  
**G. nebulosus** Pck. Ithaca, JI 15-Aug 10 (Bdy-CU).  
**G. simillimus** (Sm.). Keene Val., *Not* (Bridwell, Beq); Ithaca, Je 26-Aug 10 (Bdy-CU); McLean, Aug 1, 1925, *SRobinson* (Bdy-CU); Oliverrea (Beq); W. Nyack (Beq); Yonkers (Bridwell-AM); **LI**: Sea Cliff (Bks).

## ARPACTUS Jurine

(*Gorytes* auctt.)

- A. nigrifrons** Sm. Huguenot, JI 6, *Zab* (Bridwell-AM).

## AMMATOMUS Spinola

(Subgenus **PARAMELLINUS** Rohwer)

- A. bipunctatus** (Say). Albany, Ap 12, *Yg* (NYS); Nyack, *Aug* (AM).

## NYSSON Latreille

(Subgenus **NYSSON** Latreille)

- N. aequalis** Patt. W. Nyack (Beq); **SI** (Beq).  
**N. daeckei** Vier. **LI**: Pennequid Barrens (Beq).  
**N. lateralis** Pck. Poughkeepsie, J1 (NYS).  
**N. plagiatus** Cress. **SI** (Beq); **LI**: Flatbush, Eng, Springs (Beq); Gardiners I. (Beq).

(Subgenus **BRACHYSTEGUS** Costa)

- N. opulentus** Gerst. "NY" (Cress, Fox).

## SPHECIUS Dahlbom

- S. speciosus** (Dru.). THE CICADA KILLER. Albany (Felt-NYS); Karner, Aug (NYS); Kinderhook, Aug 26 (Bdy-CU); Tarrytown, *PineJA* (Lint-NYS); **SI**, numerous (Ds); **LI**: Roslyn, *Bks* (Bdy-CU); Flatbush, Gardiners I. (Beq); Sea Cliff (Bks). An austral form, not likely to be found elsewhere in the State than LI and the lower Hudson Val. and such an austral station as the sand hills around Karner. Nests in sandy soil and provisions its nest with cicadas.

Tribe **PHILANTHINI****PHILANTHUS** Fabricius

(These wasps burrow in the ground, provisioning their nests with bees.)

- P. albifrons** Cress. **SI**, Aug 9, *Ds* (Beq).  
**P. bilunatus** Cress. Saranac Inn, Aug (NYS); Keene Val. (Beq); Rochester Jct., J1 7, *Leon* (Bdy-CU); Norton's Landing, Cayuga L., J1 1-15, *SmHH* (Cress-CU); New Baltimore, *Zab* (Bks-AM); W. Nyack (Beq); **SI** (Beq).  
**P. consimilis** Bks. Boston, *MCV*, types.  
**P. gibbosus** (Fab.) (*punctatus* Say). Niagara Falls, Aug 17, *Ds* (Beq); Ithaca, J1 5-Oct 27 (Bdy, Bks-CU); Norton's Landing, Cayuga L., J1 10, *SmHH* (Cress); New Baltimore (Bks-AM); Ft. Montgomery, J1, *Ds*, *Schott* (Beq); W. Nyack (Beq); White Plains (Beq); Van Cort. Pk., J1 20 (Bdy-CU); **SI**, J1 4, *Ds* (Beq); **LI**: Sea Cliff, *Bks* (Beq); Orient (Beq); Flatbush, Fishers I. (Bks-AM); Gardiners I. (Beq); Farmingdale, J1 15, *Morrow* (Bdy-CU). Provisions its nests with species of *Halictus*.  
**P. lepidus** Cress. Aurora (E. Aurora?), J1 21, *Zab* (Bks-AM).  
**P. politus** Say. Karner, J1 (NYS).  
**P. sanborni** Cress. Ft. Montgomery, *Schott* (Beq); **LI**: Forest Lawn, J1 27, *Zab* (Bks-AM).  
**P. solivagus** Say. New Russia, Aug 18 (Bdy-CU); Keene Val. (Beq); Ithaca, Aug 8-31 (Bdy-CU); Cattaraugus, Sep 11 (Bdy-CU); Enfield Falls (Bdy-CU); Binghamton, Sep 5, *Ellsworth* (Bdy-CU); L. George, *Zab* (Bks-AM); White Plains (Beq); **SI** (Beq); **LI**: Fishers I., *Zab* (Bks-AM); Gardiners I. (Beq); Orient (Beq).  
**P. vertilabris** Fab. Nyack, *Zab* (Bks-AM). Provisions its nest with several species of bees.



## APHILANTHOPS Patton

- A. frigidus** (Sm.). New Russia, Aug 18 (*Bdy-CU*); Ithaca, Aug (*Bdy-CU*); Norton's Landing, Cayuga L., J1 1-15, *SmIIH* (Cress); McLean, Aug 20-26, 1925, *SRobinson* (*Bdy-CU*); Montgomery, J1 20, *Frost* (*Bdy-And*); Inwood, *Schott* (Beq); **SI**, Aug 15, *Ds* (Beq); **LI**: Elden, Aug 30, *Ds* (Beq); Bay Shore, *Ols*, Wyandanch, *Schott* (Beq). This species provisions its nest with queen ants.

## Tribe CERCERINI

## EUCERCERIS Cresson

- E. laticeps** Cress. Gloversville, Aug (NYS); White Plains, *Bno* (Beq).

## CERCERIS Latreille

(Wasps of this genus usually burrow in the ground and provision their nests with weevils or buprestids. But at least one species, sometimes if not always, builds in weed stalks.)

- C. alaope** Bks. **LI**: Sea Cliff (Bks).  
**C. arelate** Bks. New Russia, Aug 18, 1912, *Bdy* (Bks-CU); Ithaca, J1 27-Aug 19 (Bks-CU).  
**C. bicornuta** Guer. **SI**, J1 1-Aug 19, *Ds* (Beq); **LI**: Rosedale, *Schott* (Beq); Jamaica, *Eng* (Beq); Flushing (Beq); Huntington, *Schott* (Beq).  
**C. chrysippe** Bks. Ithaca, J1 13 (*Bdy-CU*).  
**C. clypeata** Dahlb. Johnstown, Aug (NYS); Ithaca, J1 9-Aug 18 (*Bdy-CU*); W. Danby, Aug 15, *Summers* (*Bdy-CU*); McLean, Aug 31, 1925, *SRobinson* (*Bdy-CU*); W. Nyack, White Plains (Beq); **SI**, *Ds* (Cress, Beq); **LI**: Cold Sp. Harb., Jamaica, Huntington, Port Jefferson (Beq); Farmingdale, J1, *Morrow* (Bks-CU).  
**C. compacta** Cress. Elizabethtown, Je, *Yg* (NYS); **LI**: Gardiners I. (Beq).  
**C. compar** Cress. Ithaca (Bks); Rhinebeck, J1 27, 1907, *Cy* (Bks-CU).  
**C. dentifrons** Cress. Essex Co, Aug; **LI**: Sea Cliff (Bks).  
**C. deserta** Say. New Russia, Aug 18, *Bdy* (Bks-CU); Saranac L., Aug 26 (Bks-CU); Ithaca, Je 28-Sep 4 (*Bdy*, Bks-CU); White Plains (Beq); Chatham, *Morse* (Bks); **SI**, J1, *Ds* (Beq); **LI**: Sea Cliff (Bks); Springs (Beq); Gardiners I. (Beq).  
**C. fumipennis** Say. Albany (NYS); Karner; W. Nyack (Beq); **LI**: Yaphank, Aug 5, *Comstock* (*Grossbeck*); Wading R., *Eng*, Wyandanch, *Schott*, Yaphank, Aug, *Ds* (Beq).  
**C. nigrescens** Sm. Keene Val. (Beq); Manlius, Aug 1-15, *SmHH* (*Bdy-CU*); Otto, Sep 15-30, *Comstock* (*Bdy-CU*); Rochester Jct., Je 29, *Leon* (*Bdy-CU*); Ithaca, J1 22-Sep (*Bdy*, Bks-CU); Norton's Landing, Cayuga L., Je 1-15, *SmHH* (*Bdy-CU*).  
**C. nigrutilus** Bks. Colden, *MCV*, type.  
**C. occipitomaculata** Pck. (*fulvipediculata* Schletterer, *fulvipes* Cress.). Long L., Aug (NYS); Keene Val., *Not* (Beq); Wilmington, Aug 20-25, 1000-2200 ft. (Bks-CU); Cattaraugus, Sep 11 (*Bdy-CU*).  
**C. robertsoni** Fox. Ithaca, J1 16 (*Bdy-CU*).  
**C. salome** Bks. Nyack, NYC, types.  
**C. venator** Cress. "NY", *Angus* (Cress, Pck).

Tribe **BEMBICINI**<sup>177</sup>

(Sand wasps. All build in sand.)

**STICTIA** Illiger

- S. carolina** (Fab.). **SI**: Watchogue, Aug 10, *Ds* (*JB Parker, Ds, Sf*). An austral species reaching in **SI** the extreme northern limit of its known range. Davis states that it occurred in some abundance one season but has not been observed since. The species nests in colonies and provisions its nests with horseflies, but lays its eggs in the empty cell, not bringing in food until the larva has hatched.

**STICTIELLA** Parker

- S. emarginata** Cress. Center, **Jl**, 1870, 1♂ (*Roh-NYS*).

**BICYRTES** Lepeletier

(These species store their nests with nymphs of Hemiptera, mostly stinkbugs, filling and sealing the cells, instead of providing daily provender.)

- B. quadrifasciata** (Say). New Windsor, Nyack (**AM**); White Plains (**Beq**); **SI**, Aug (*JB Parker, Ds*); **LI**: Cold Sp. Harb. (**Beq**). An austral species reaching the northern limit of its range in the coastal region of Conn.
- B. ventralis** (Say). Wilmington, Aug 20-25 (**Bdy-CU**); Keene Val., *Not* (**Beq**); White L. (**AM**); L. Waccabuc (**AM**); Manlius, Aug 18-23, *SmHH* (**Cress-CU**); Castile, *EABradley*; Ithaca, **Jl** 15-Aug 18 (**Bdy-CU**); Norton's Landing, Cayuga L., **Jl** 1-14, *SmHH* (**Cress-CU**); L. George (**AM**); Rhinebeck, **Jl** 27, *Cy* (**Bdy-CU**); Ft. Montgomery, **Jl**, *Ds* (*JB Parker, Ds*); W. Nyack (**Beq**); White Plains (**Beq**); NYC (**AM**); **SI**, **Jl**-Sep (*JB Parker, Ds*); **LI**: Yaphank, **Jl**, Aqueduct, Sep (*JB Parker, Ds*); Farmingdale, **Je** 17, *Morrow* (**Bdy-CU**); Sea Cliff (**Bks**); Jamaica, Flushing (**Beq**). Extends throughout the Carolinian and Transition zones, northward into Canada.

**BEMBEX** Fabricius

(The species of *Bembex* nest in colonies in sand. They feed their larvae from day to day with flies. The egg is laid on a paralyzed fly.)

- B. pruinosa** Fox. Karner, Sep (**Bdy-NYS**); "NY" (*Parker*). An austral species which probably reaches its northern limit in the coastal district of New York, and such Carolinian islands as the sand hills around Karner.
- B. spinolae** Lep. Mt. Whiteface, 2000-4000 ft., Aug 23 (**Bdy-CU**); Norton's Landing, Cayuga L., **Jl** 1-14, *SmHH* (**Cress-CU**); Ithaca, **Jl** 10-Sep 9 (**Bdy-CU**); New Riverside (**Bdy-CU**); Karner, **Jl** (*Parker, Ds*); DeBruce, Sep (*Parker, Ds*); **SI**, Aug (*Parker, Ds*); **LI**: Aqueduct, Wading R., Rockaway, **Je**-Sep (*Parker, Ds*). The commonest species of the genus throughout the greater part of the Austral and especially of the Transition zone, reaching northward into Canada.

**MICROBEMBEX** Patton

- M. monodonta** (Say). Karner, **Jl** (**NYS**); **SI**, **Je**-Sep (*Parker, Ds*); **LI**: Sea Cliff, *Bks* (*Parker-CU*). An abundant species of the sea beaches, both Atlantic and Pacific, nesting in white sand, but also found more sparingly

<sup>177</sup> A revision of the bembecine wasps of America, north of Mexico. By John Bernard Parker. Proc. U.S. Nat. Mus., 1917, 52: 1-155.

inland on sandy areas. Its northern limit, so far as known, is the coast of Conn. It provisions its nest with a variety of dead insects, which it gathers up on the sand.

## SUBFAMILY OXYBELINAE

(Crabroninae)

## Tribe SOLENIINI

(Crabronini)

Some species of this tribe nest in the ground, some excavate the pith of plants, some build in solid wood, and some use deserted burrows or any suitable hole. Mostly the nests are provisioned with flies. The genera and subgenera recognized in this tribe correspond to those recognized by Kohl in his recent monograph of the Palearctic forms. The "Artengruppen" of Crabro are here recognized as subgenera, but his "Untergruppen" are not so recognized.

## SOLENIUS Lepeletier

(Crabro auctt.)

(Subgenus SOLENIUS Lepeletier)

- S. brunneipes** Pck. Ithaca, Je 25-J1 (Bdy-CU).  
**S. corrugatus** Pck. Ithaca (Bks).  
**S. montanus** Cress. Norton's Landing, Cayuga L., Je 17, *SmHH* (Cress-CU); Dryden L., Je 16, Ithaca to Ellis, Je 9-12, *MacG* (Bdy-CU). Nests in logs.  
**S. parvulus** Pck. Rock City, Je 7 (Bdy-CU); Ithaca, J1 25, McLean, May 31-J1 18 (Bdy-CU).  
**S. obscurus** Sm. Ithaca (Bks); Manlius, Aug, *SmHH* (Cress-CU); McLean, May 30-Je 30, Ithaca to Ellis, Ap 22-Aug 1, *MacG* (Bdy-CU); Oliveria (Beq); **LI**: Orient (Beq). Has been observed nesting in logs.  
**S. nigrifrons** Cress. Ithaca, J1 (Bks).  
**S. septentrionalis** Pck. Ithaca, Je 13-Aug 30, Freeville, J1 4 (Bdy-CU).  
**S. sayi** Ckll. (*sexmaculatus* Say). Wilmington, 1000-2000 ft., Aug 20-25, New Russia, Aug 8, Potsdam, Aug 14, Peru, Je 21, Taughannock, Aug 13, Ithaca, Ap-Aug 28 (Bdy-CU); Alexandria Bay, Sep 4 (Bdy-CU); Malloryville, Je 18-20, *MacG* (Bdy-CU); Rock City, Je 5 (Bdy-CU); Ithaca (Bks); Caroline to Harford, Je 15, McLean, May 31-Aug 30, *Sib*, Mud Cr., Je 17-20, Ellis to Slaterville, Je 13, *MacG* (Bdy-CU); Norton's Landing, Cayuga L., J1 1-14, *SmHH* (Cress-CU); Spencer, Je 30 (Bdy-CU); Center Lisle, Je 10 (Bdy-CU); Oliveria (Beq); Ft. Montgomery, *Schott* (Beq); Pine I. (Beq); Bear Mt., Sep 7, *Schott* (Roh); **SI**, J1, *Ds* (Beq); **LI**: Maspeth (Beq). Known to nest in logs.  
**S. trifasciatus** (Say). Newport, J1, Saranac Inn., J1 (NYS); Manlius, Aug, *SmHH* (Cress-CU); Otto, Sep 1-15, *Comst* (Bdy-CU); Geneva, Je 26, *Comstock* (Bdy-CU); Ithaca, May-J1 9, Spencer, Je 30, *Comstock* (Bdy-CU); Ellis to Slaterville, Je 13, *MacG*; McLean, J1 18 (Bdy-CU); Taughannock, J1 13, Homer, J1 2, *MacG* (Bdy-CU); Norton's Landing, Je, *SmHH* (Cress-CU); Albany, Sep, Poughkeepsie, J1 (NYS); **SI**, Aug, *Ds* (Ashm); **LI**: Gardiners I. (Beq).

- S. stirpicola** Pck. Spencer L., Je 30, Ithaca, Jl 7-Aug 1, McLean, Jl 18 (Bdy-CU).  
Nests in brambles and elder twigs, provisioning them with a variety of flies.  
They have been observed to utilize tunnels in a railroad tie for a nesting site.
- S. decemmaculatus** Say. West Farms, *Angus*, *Nort* (Pck); **LI**: Springs (Beq).  
Preys on horseflies.
- S. chrysargyrus** Lep. (*chrysarginus* Pck.). Keene Val., *Not* (Beq); Manlius, Sep 6, *SmHH* (Cress-CU); New Russia, Aug 18 (*Bdy-CU*); Caroline to Harford, Je 10, Ithaca, Je-Jl 9, *MacG* (*Bdy-CU*); Ft. Montgomery, *Schott* (Beq); **SI**, *Ds* (Ashm). Very widely distributed from Ga northward to Canada and westward to the Pacific Coast. Nests in logs.
- S. rufifemur** Pck. Ithaca, Jl-Aug 4 (*Bdy-CU*); **SI** (Beq).
- S. singularis** Sm. (*maculatus* Fab.?). Keene Val. (Beq); Old Forge, Wells, Saranac Inn, Jl (NYS); Malloryville, Je 18-20, *MacG* (*Bdy-CU*); Otto; Ithaca, Jl 14-30, McLean, Jl 9-Aug 30, *SRobinson* (*Bdy-CU*); Trenton Falls, *Dbl* (FSm); Oliverea (Beq); **LI**: Orient (Beq).

(Subgenus **CERATOCOLUS** Lepeletier)

- S. producticollis** Pck. Keene Val. (Beq); Wells, Jl, Long L., Aug (NYS); Portageville, Je 13, Ithaca, Je 13-Aug 6 (*Bdy-CU*); Mud Cr., Je 17-20, *MacG* (*Bdy-CU*); Norton's Landing, Cayuga L., Jl, *SmHH* (Cress-CU); **LI**: Sea Cliff (Bks); Pennequid Barrens (Beq); Huntington, Aug 19, *Schott* (Roh). A Canadian species.
- S. interruptus** Lep. Canandaigua L., Jl (NYS); Manlius, Sep, *SmHH* (Cress-CU); Geneva, Je 26, *Cy* (*Bdy-CU*); Otto, Sep 1-15, *Comstock* (Cress-CU); Ithaca, May-Sep (*Bdy-CU*); Taughannock, Jl 2, Spencer, Je 30, *Comstock* (*Bdy-CU*); Norton's Landing, Cayuga L., Jl, *SmHH* (Cress-CU); Ft. Montgomery, *Schott* (Beq); Middletown, Jl 2-20, *Spooner* (*Bdy-CU*); **SI**, Jl 20, *Ds*, *Ashm* (Beq); **LI**: Springs, Gardiners I. (Beq).

(Subgenus **THYREOPUS** Lepeletier)

- S. argus** Pck. **LI**, *Ashm* (Fox); Gardiners I. (Beq).
- S. cribellifer** Pck. **LI**, *Ashm* (Fox); Gardiners I. (Beq).
- S. latipes** Sm. Axton, Je 12-22, *MacG&H* (*Bdy-CU*); Long L., Aug (NYS).  
A Canadian species.
- S. monticolus** Pck. Old Forge, Jl, Piseco L., Aug (NYS).
- S. provancheri** Fox. Ithaca, Aug 12 (*Bdy-CU*).
- S. advenus** Sm. Batavia, Je 18, Ithaca, Je 20-Oct 2 (*Bdy-CU*); **LI**, *Ashm* (Fox).
- S. tumidus** Pck. **LI**: Jamaica (Beq).

(Subgenus **CROSSOCERUS** Lepeletier)

- S. nitidiventris** Fox. Ithaca, Je 5-Jl (*Bdy-CU*).
- S. maculipennis** Sm. Speculator, Aug (NYS); Rochester Jct., Je 28, *Leon* (*Bdy-CU*); Black Br., Je 21 (*Bdy-CU*); Ithaca, Je 5-Jl 22 (*Bdy-CU*); L. Keuka, Je 28, *Cy* (*Bdy-CU*); Albany, May (NYS).
- S. minimus** Pck. Wilmington, 1000-2000 ft., Aug 20-25 (*Bdy-CU*); Ithaca, Je 27, *Guerlac* (*Bdy*); **LI**: Sea Cliff (Bks).
- S. tarsalis** Fox. "NY" (Fox).

- S. harringtonii** Fox. New Russia, Aug 18 (Bdy-CU).  
**S. impressifrons** Sm. New Russia, Aug 18, Ithaca, Jl 9-Aug 27 (Bdy-CU); **LI**: E. New York, *Schott* (Beq).  
**S. nigricornis** (Prov.). Ithaca, Je 22, McLean Bogs, May 29 (Bdy-CU); **LI**: Gardiners I. (Beq).  
**S. ater** (Cress.). McLean, Aug 19-31, *Sib*, *SRobinson* (Bdy-CU).  
**S. pedicellatus** Pck. Otto (Bdy-CU); Ithaca, Je 27-Jl 22 (Bdy-CU); Albany, May, *Nort*, West Farms, *Angus* (Pck); W. Nyack (Beq); **SI** (Beq). Ithaca specimens bred from nest in a hollow stem. The Peckhams say they build in old stumps, provisioning with *Chironomus*.

## ANACRABRO Packard

- A. ocellatus** Pck. Ithaca, Jl 21 (Bdy-CU); Taughannock, Jl 21 (Bdy-CU); Karner, Kenwood, Albany, Jl (NYS); Bear Mt., Je 2, *Schott* (Roh); **SI**, Je 30, *Ds* (Ashm, Beq); **LI**: Cold Sp. Harb., Pennequid Barrens (Beq). Builds in sand banks, and provisions its nest with the plant-bug *Lygus pratensis* (L.).

## Tribe OXYBELINI

## OXYBELUS Latreille

- O. quadrinotatus** Say. Old Forge, Jl (NYS); Ithaca, Aug 10, *Comstock*, found nesting in sandy place, the cells provisioned with flies, from two to four inches below surface (Bdy-CU); McLean, Jl 18 (Bdy-CU); Manlius, Aug 15, *SmHH* (Cress-CU); Dublin (Pck); Karner, Jl, Rensselaer, Jl (NYS). Common. Nests in sandy places, using flies for provender, which it transports by impaling them on its sting.

FAMILY HYLAEIDAE<sup>178</sup>*(Prosopeidae)*

Compiled by M. D. LEONARD

## SUBFAMILY COLLETINAE

## COLLETES Latreille

(The members of this genus build characteristic nests in the ground, often in colonies.)

- C. americanus** Cress. Ithaca, Jl-Aug (Rich-CU); New Baltimore (Schw); Nyack (Schw); Tappan, Oct (Schw); Mosholu, Sep (Schw); Bryn Mawr Pk., Sep (Schw); **LI**: Pine I., Sep (Schw).  
**C. armatus** Patt. "NY" (Patt-AES), type; Hague, Sep (Schw); L. George, Aug (Schw); Forest Lawn, Sep (Schw); White L., Sep (Schw); Mosholu, Sep (Schw); Nyack (Schw); **LI**.  
**C. compactus** Cress. Tomkins Cove, Sep (Schw); Nyack, Mosholu, Suffern, Sep, Ramapo, Van Cort. Pk., Sep (all Schw); **LI**: Flatbush, Sep, Pine I., Sep (Schw).

<sup>178</sup> The list of bees, with the exception of Bombidae, has been compiled from literature and from material which has been determined in the Cornell collection by E. A. Richmond and others. H. E. Schwarz has contributed records of Colletes and Hylaeus. The editors are under obligations to Miss Grace Sandhouse, and especially to T. D. A. Cockerell, for assistance and suggestions as to synonymy, etc., and for additional records. H. L. Viereck has compiled the list of the genus *Andrena*.



- C. inequalis** Say. Ithaca, Ap-May (Rich-CU); Albany, Karner, Poughkeepsie, Ap-May (NYS); New Baltimore, Nyack (Schw); **LI**, May (Schw).  
**C. latitarsis** Robt. Huguenot, Aug 27, one ♂ (Schw).  
**C. productus** Rob. Chazy L., Je; Trenton Falls, J1; Newport, J1, Yg; Ithaca, May; Karner, Ap-Sep; Clinton Hgts., Ap (all NYS).  
**C. validus** Cress. **LI**: Sea Cliff, Bayville (Swenk).

SUBFAMILY **HYLAEINAE****HYLAEUS** Fabricius

(Prosopis Fabricius)

(The members of this genus usually nest in pithy stems, but some in the ground, or in crevices in walls.)

- H. basalis** (Sm.). Cranberry L., J1 (Schw); Ithaca, J1 (Rich-CU).  
**H. cressoni** (Ckll.) (*pygmaeus* Cress.). Ithaca, Je-J1 (Rich-CU).  
**H. modestus** Say. Keene Val, J1-Aug (Schw); L. George, Aug (Schw); Ithaca, Caroline to Harford, Taughannock Falls, Je-Aug (Rich-CU); Bushnellsville, Sep (Schw); Olivera, Je (Schw); Stony Pt., Je (Schw); **LI**: Flatbush, Je, Pine I., Sep, Cold Sp. Harb., J1 (Schw). Visits milkweed, goldenrod, parsnip, meadowsweet, and day lily.  
**H. pygmaeus** (Cress.). Keene Val., Aug (Schw); L. George, Aug (Schw); White L., Aug (Schw); **LI**: Cold Sp. Harb., J1 (Schw); Fishers I., Aug (Schw). On flowers of goldenrod and red raspberry.  
**H. varifrons** (Cress.). Ithaca, Caroline, Je (Rich-CU); **LI**: Pine I. (Schw).  
**H. verticalis** (Cress.). Mud Cr., Je (Rich-CU); McLean, Aug 20-31 (Roh-CU); Catskills, Aug (Schw).  
**H. ziziae** (Robts.). Ithaca, Taughannock, Ringwood, Spencer L., Slaterville, May-Je (Rich-CU); McLean, Aug 1-7 (Roh-CU).

FAMILY **ANDRENIDAE**<sup>179</sup>

Compiled by M. D. LEONARD

SUBFAMILY **ANDRENINAE****ANDRENA** Fabricius<sup>180</sup>

(The very numerous species of *Andrena* build their nests in the ground where the vegetation is sparse. They often group their nests into colonies.)

- A. accepta** Vier. White Plains, Aug, Sep, on *Helianthus giganteus*, Beq.  
**A. angusi** Vier. West Farms, NYC.  
**A. arabis** Rob. McLean, Ap, Morr.  
**A. asteris** Rob. White Plains, Sep 10, Beq; **LI**: Montauk, Sep, Ds. Visits aster.  
**A. barbarica** Vier. **LI**: Brooklyn, Beq.  
**A. bisalicis** Vier. Ithaca, Sep; **SI**, Ap, Beq; **LI**: Flushing; Farmingdale, Ap, on Salix.  
**A. braccata** Vier. White Plains, Sep, on *Aster ericoides*, Beq. Found also on goldenrod.

<sup>179</sup> See footnote under family Hylaeidae, page 1021.

<sup>180</sup> The list for this genus has been prepared by H. L. Viereck.

- A. bradleyi** Vier. **SI**, May, on *Salix*, *Beq.* Also on gooseberry and huckleberry.
- A. canadensis** D.T. Keene Val., Aug, *Lint.*
- A. carlini** Ckll. Newport, May, *Yg*; Ripley, Ap; Ithaca, Ap-May, *MacG*, *Morr*; McLean, Ap 17-Je 18; Easton, May; Albany, Ap-May; Delmar, May; Clinton Hgts., Ap-May; Garrison, *Ckll*; Poughkeepsie, May; **SI**: Watchogue, May; **LI**: Flatbush, May, *Zab*; Flushing; Yaphank, May, on *Antennaria plantaginifolia* and *Salix*; Half Way Hollow Hills, May; Wyandanch, May, *Ds*; Southold, Ap.
- A. ceanothi** Vier. **LI**: Central Pk., Je 27, on *Cornus candidissima*, *Beq.*
- A. crataegi** Rob. Speculator, Je, *Yg*; Keene Val., Jl, *Lint*; Saranac Inn, Je; Ilion, May, *Yg*; Oswego, Je; Northville, Je, *Yg*; Niagara Falls, Je, *Jn*; Pike, Je; Ithaca, *Fawaugh*; Corinth, May, *Yg*; Salem, Je; Albany, May-Je; Karner, Mar, May, *Yg*; Bath, Je; Red Hook, Je, *Leon*; White Plains, Je, *Beq*; Garrison, *Cattell*; **LI**: Cold Sp. Harb., Je, *Beq.* On fruit-tree flowers.
- A. cressoni** Rob. Ithaca, Ap; McLean, Ap, *Morr*; Nassau, May; Albany, Je; Poughkeepsie, May; **LI**: Flushing, *Beq.* Visits chokeberry.
- A. erythrogastra** var. *subaustralis* Ckll. Nyack, Feb, *Zab.*
- A. erythronii** Rob. Ithaca, Ap, *Morr.*
- A. fenningeri** Vier. Ithaca, *Bks.*
- A. fimbriata** Ill. **SI**, Aug, *Ds* (Ashm).
- A. flavoclypeata** Sm. Speculator, Je, *Yg*; Ithaca, May, *Bish*, *MacG*; McLean, Ap, wild cherry; Coy Glen, May, *Morr*; Nassau, May; Clinton Hgts., Ap; Karner, Ap-May; Bath, May; Delmar, May; Poughkeepsie, May; Red Hook, Je, *Leon*; Nyack, Oct, *Zab*; Garrison, *Cattell* (Ckll); **SI**; **LI**: Orient Pt., May; Central Pk., on *Cornus candidissima*, *Beq*; Farmingdale, Ap, on *Antennaria plantaginifolia*, *Beq.* Common on flowers of fruit-trees.
- A. forbesi** Rob. **LI**: Flushing, Ap; Farmingdale, Ap, on *Salix*, *Beq.* On pear, currant, willow.
- A. fragariana** Graen. Garrison, *Cattell* (Ckll).
- A. fragilis** Sm. Newport, Je, *Yg*; Northampton, Je, *Yg*; Ithaca, Aug; Poughkeepsie, Je; **LI**: Sea Cliff, *Bks.*
- A. geranii maculati** Rob. **LI**: Sea Cliff, *Bks.*
- A. helianthi** Rob. var. White Plains, Sep; **LI**: Flushing, on *Helianthus giganteus*, *Beq.*
- A. hippotes** Rob. Ithaca, May; Coy Glen, Ithaca, May; McLean, Ap, *Morr.* Visits apple, Japanese plum, and sweet cherry.
- A. hirticincta** Prov. Ithaca, Aug; McLean, Aug 23 (Roh-CU); Garrison, *Cattell*; **SI**, Aug-Sep, *Ds.* On goldenrod and other late summer flowers.
- A. imitatrix** Cress. Pike, Je.
- A. imitatrix** var. *claytoniae* Rob. Ithaca, Ap-May, *Morr*; McLean, Ap, wild cherry.
- A. imitatrix** var. *texana* Cress. Ithaca, Ap, *Morr*; McLean, Ap, wild cherry.
- A. impunctata** Kby. Cumberland, type; **SI**, Ap 30, *Ds* (Ashm).
- A. integra** Sm. "NY", *Nort.* On golden alexanders, *Zizia aurea* (L).
- A. lata** Vier. Adirondacks; Axton, Je (M&H).
- A. mandibularis** Rob. Niagara Falls, Je, *Jn.*
- A. mariae** Rob. var. *concolor* Rob. Coy Glen, Ithaca, Ap-May; McLean, Ap. Visits blackberry, currant, and gooseberry flowers.

- A. milwaukeensis** Graen. Mt. Skylight, 4800-4920 ft., J1, *Beq*; Oswego, Je; Albany, May; Nyack, *Zab*; Garrison, *Cattell*; **SI**, *Ds*.
- A. miranda** Sm. Ithaca, May; Salem, Je; Rensselaer, May.
- A. moesta** Sm. **LI**: Farmingdale, Ap-May, on *Salix*; Flushing, *Beq*; Half Way Hollow Hills, *Ds*.
- A. nasoni** Rob. Oswego (NYS); Niagara, Je, *Jn*; Ithaca, Ap-May, *Morr*; McLean, Ap, on wild cherry; Albany, Je (NYS); Poughkeepsie, May (NYS); Garrison, *Cattell* (Ckll); **LI**: Cold Sp. Harb., Je, *Beq*. On fruit-tree blossoms, also currant and gooseberry.
- A. nubecula** Sm. Van Cort. Pk., *Beq*.
- A. nuda** Rob. **LI**: Cold Sp. Harb., Je, *Beq*.
- A. perplexa** Sm. "NY" (Pck).
- A. placida** Sm. (*macgillivrayi* Ckll.). Albany, Ap (NYS); **SI**, May 15, on *Rubus canadensis*, *Beq*; **LI**: Farmingdale, Ap, on *Salix*; Flushing, Ap, *Beq*; Orient, Ap (NYS). Gooseberry and Japanese plum.
- A. regularis** Mall. Speculator, Je, *Yg*; Ithaca, Ap-Je, *Bdy*; Rensselaer, May.
- A. robertsoni** D.T. Niagara Falls, Je, *Jn*; White Plains, Je; Garrison, *Cattell* (Ckll); **LI**: Cold Sp. Harb., Aug, on *Clethra alnifolia*, *Beq*.
- A. rugosa** Rob. Garrison, *Cattell*.
- A. salictaria** Rob. Newport, Je, *Yg*; Albany, Ap; Karner, Ap-May, *Yg*; W. Nyack, Mar, *Beq*.
- A. sigmundi** Ckll. Ithaca, *Bks*; McLean, Ap, *Morr*; Karner, Ap-May; Nassau, Ap; W. Nyack, Mar; **LI**: Farmingdale, on *Salix*; Flushing, Ap, *Beq*; Central Pk., *Ds*.
- A. spireana** Rob. White Plains, Je, on *Ceanothus americanus*, *Beq*; West Farms, NYC, *Angus*.
- A. tridens** Rob. Nyack, Oct, *Zab*.
- A. vicina** Sm. Ilion, May, *Yg*; Oswego, May (US); Ithaca, Ap-May, *Morr*; McLean, Ap, on wild cherry; Albany, May; Bath, Je; **SI**, May, *Beq*; **LI**: Half Way Hollow Hills, May, *Ds*; Central Pk., Ap, *Ds*; Farmingdale, Ap, on *Salix*; Flushing, *Beq*. On fruit-tree and gooseberry flowers.
- A. wilkella** Kby. Mt. Skylight, 4800-4920 ft., J1, *Beq*; Mt. Marcy, 4800-5344 ft., J1, on *Potentilla tridentata*, *Beq*; Rochester Jct.; Honeoye Falls, Je, *Ds*; Rock City, Je, *Ds*; Ithaca, May-Je, on wild cherry, *Bks*, *Morr*; McLean Bogs; Albany, May-Je; Karner, May, *Yg*; N. Chatham, Je; Niverville, Je, *Yg*; Poughkeepsie, May; Loomis; **SI**, May, on *Rubus canadensis*; **LI**: Farmingdale, Ap, on *Salix*; Wyandanch, May, *Ds*.

## CALLIOPSIS Smith

- C. andreniformis** Sm. Keene Val., Aug (Rich-CU); Newport, Je, *Yg*; Ithaca, Je-J1 (Rich-CU).

## EPEOLUS Latreille

(Social parasites in the nests of other bees.)

- E. mercatus** Fab. **SI**, Sep 2, *Ds* (Ashm).
- E. scutellaris** Say. **LI**: Huntington, Sep 16 (Schott).
- E. vernoniae** Ckll. Mooers, Sep 9-13, *Not* (Cwfd).

## TRIEPEOLUS Robertson

**T. donatus** (Sm). **LI**: Huntington, Sep 16 (Schott).

## HALICTUS Latreille

(These are gregarious mining bees which excavate their nests in bare level ground or in vertical banks, such as old gravel pits. Several bees of some species build their cells opening from a common gallery, the entrance to which is guarded by a bee whose head is used as a portal.)

(Subgenus **HALICTUS** Latreille)

- H. inconspicuus** Sm. **SI**, J1-Aug, *Ds* (Ashm).  
**H. lerouxii** Lep. Ithaca, May-Aug (Rich-CU) ; Scotia, Je (NYS). On gooseberry.  
**H. similis** Sm. Ithaca, May (Rich-CU).  
**H. zonulus** Sm. Ithaca, Je (Rich-CU).

(Subgenus **ODONTALICTUS** Robertson)

- H. ligatus** Say. Ithaca, Aug (Rich-CU) ; McLean, *Sib* (Bdy-CU) ; **SI**, Aug, *Ds* (Ashm). On goldenrod.

(Subgenus **AGAPOSTEMON** Guérin)

- H. radiatus** Say. Ithaca, Je (Cress-CU) ; McLean, Aug 27 (Roh-CU) ; Garrison *Cattell* (Ckl1). On goldenrod, New Jersey tea, etc.  
**H. virescens** (Fab.). Mooers, Sep 11, *Not* (Lutz) ; Ithaca, Je (Rich-CU) ; McLean, Sep 24 (Roh-CU).

(Subgenus **OXYSTOGLOSSA** Smith)

- H. confusus** Smith. Ithaca, Je-J1 (Rich-CU) ; McLean, Aug 19-31 (Roh-CU) ; Garrison, *Cattell* (Ckl1).  
**H. purus** Say. Ithaca, J1 (Rich-CU) ; McLean, Sep 16 (Roh-CU).

(Subgenus **LASIOGLOSSUM** Curtis)

- H. fuscipennis** Sm. **SI**, Je 15, *Ds* (Ashm).

(Subgenus **CHLORALICTUS** Robertson)

- H. cattellae** Ellis. Garrison, *Cattell* (type, Ckl1).  
**H. hortensis** Lovell. McLean, Aug 1-Sep 24, *SRobinson*, *Sib* (Roh-CU) ; Garrison, *Cattell* (Ellis).  
**H. laevissimus** Sm. **SI**: Prince's Bay Sta., *Ds* (Ashm).  
**H. subconnexus** Ellis. Niagara, Je (Ckl1) ; Garrison, *Cattell* (Ellis).  
**H. zephyrus** Sm. Garrison (Ellis-CU). On fruit flowers.

(Subgenus **CURTISAPIS** Robertson)

- H. coriaceus** Sm. Ithaca, Je-J1 (Rich-CU) ; **SI**, Ap 30, *Ds* (Ashm).

(Subgenus **SELADONIA** Robertson)**H. flavipes** Fab. **SI**, **Jl**, *Ds* (Ashm).**H. provancheri** D.T. Ithaca, *Ap* (Rich-CU); McLean, Aug 24-Sep 16 (Roh-CU).**MACROPIS** Panzer**M. ciliata** Patt. Newport, Old Forge, *Je*, *Yg* (NYS); Elm *L.*, Aug (NYS); Karner, *Jl* (NYS). On laurel, loosestrife, and ginseng.**M. morsei** Patt. Elizabethtown (NYS); McLean, *Jl* (Rich-CU); Poughkeepsie, *Jl* (NYS).**M. patellata** Patt. Ithaca, *Jl* (Rich-CU); McLean, *Jl* 19 (Roh-CU). Visits sumac, water hemlock, and fringed loosestrife.**NOMADA** Fabricius

(Social parasites in the nests of other bees.)

(Subgenus **GNATHIAS** Robertson)**N. albofasciata** Sm. "NY" (Ckll-US).**N. bella** Cress. Ithaca, *Ap*-May (Rich-CU); McLean, May (Rich-CU); Nyack, *Zab* (Ckll).**N. cornelliana** Ckll. Ithaca, *Bks* (Ckll).**N. cuneata** (Robt.). "NY" (Ckll).**N. cuneata** (Robt.) var. *quadrisignata* Robt. McLean, *Ap* 17-Je 18 (Roh-CU).**N. lepidata** Cress. Ithaca, *Ap*-May (Rich-CU); W. Danby, May (Rich-CU).**N. perplexa** Cress. Ithaca, *Je*-*Jl* (Rich-CU).(Subgenus **HOLONOMADA** Robertson)**N. affabilis** Cress. Ithaca (Rich-CU); W. Danby, May (Rich-CU).**N. vincta** Say. Ithaca (Rich-CU).(Subgenus **HEMINOMADA** Cockerell)**N. obliterata** Cress. Ithaca, May (Rich-CU).(Subgenus **XANTHIDIUM** Robertson)**N. luteola** Lep. Ithaca, May (Rich-CU).**N. luteoloides** Robt. Nyack, *Zab* (Ckll).(Subgenus **NOMADA** Fabricius)**N. bisignata** Say. Ithaca, *Ap*-May (Rich-CU). Cannot be identified, according to Robertson, 1898.**N. cressoni** Robt. Ithaca, *Je* (Rich-CU).**N. denticulata** Robt. Ithaca, *Ap* 26 (Roh-US); W. Danby, May (Rich-CU).**N. gracilis** Cress. Ithaca, *Ap* (Rich-CU).**N. pygmaea** Cress. Ithaca, *Ap*-May (Rich-CU); McLean, May (Rich-CU).**N. sayi** Robt. Ithaca, *Ap*-*Je* (Rich-CU).**N. xanthura** Ckll. **LI**: Sea Cliff, May, *Bks*.



**PANURGINUS** Nylander

**P. pauper** (Cress.). "NY" (Cress).

**PERDITA** Smith

**P. octomaculata** (Say) Prov. Keene Val., Aug (Rich-CU); Ithaca, Aug (Rich-CU). Visits goldenrod and aster.

**SPHECODES** Latreille

(These are social parasites on the species of *Halictus*.)

**S. arvensis** Patt. McLean, J1 18 (Roh-CU). On goldenrod, sunflower, parsnip, and meadowsweet.

**S. dichropa** Sm. Ithaca, Je (Rich-CU).

**S. mandibularis** Cress. Ithaca, Sm (CU). Visits goldenrod, New Jersey tea, and day lily.

**S. persimilis** Lov. & Ckll. Trenton Falls (Ckll).

**S. trentonensis** Ckll. Trenton Falls, type (Ckll).

SUBFAMILY **ANTHOPHORINAE****ANTHOPHORA** Latreille<sup>181</sup>

(The species of *Anthophora* build in vertical or steeply inclined banks, their entrance galleries protected by cylindrical chimneys. They build in colonies.)

(Subgenus **ANTHEMOESSA** Robertson)

**A. abrupta** Say. Ithaca, Je-J1, Smith (CU). On rose, milkweed, bindweed, beard-tongue, Virginia water-leaf, Virginia cowslip, ipecac, and New Jersey tea.

(Subgenus **ANTHOPHORA** Latreille)

**A. bomboides** Kby. Ithaca, J1-Aug (Rich-CU). On dogbane.

**A. pyralitarsis** Dours. "NY", type.

**A. ursina** Cress. Garrison, Cattell (Lutz&Ckll). On Virginia cowslip, blue-eyed Mary, milk vetch, and wild honeysuckle.

(Subgenus **CLISODON** Patton)

**A. terminalis** Cress. Ithaca, J1-Aug (Rich-CU); McLean, J1 18-Aug 31 (Roh-CU); Canandaigua, Je, Felt (NYS). Nests in wood. Visits aster, hedge nettle, pickerel-weed, etc. Considered identical with the European *A. furcata* (Panz.).

**MELISSODES** Latreille

(Subgenus **MELISSODES** Latreille)

**M. agilis** Cress. (*aurigena* Cress.). Hope, Aug, 1900 (NYS); Gloversville, Aug, 1906; Ithaca, Je-Aug (Rich-CU); Albany, Ap, 1905. On sunflower and other composites.

<sup>181</sup> If the Erlangen List is accepted, the name *Anthophora* will be replaced by *Lasius*.

- M. bimaculata** (Lep.). **SI**, Aug, *Ds* (Ashm); **LI**: Orient, Sep, *Ds* (Beq). On milk vetch, milkweed, wild potato, bindweed, figwort, speedwell, ironweed, Joe-pye weed, other composites, etc.
- M. desponsa** Sm. Ithaca, Jl-Aug (Rich-CU); **SI**, *Ds* (Ashm); **LI**: Yaphank, Sep, *Ds* (Beq). On goldenrod, thistle, sunflower, and other composites, and on pickerel-weed.
- M. perplexa** Cress. Ithaca, Aug (Rich-CU). On Jimson weed, goldenrod, aster, sunflower, and other composites.
- M. rustica** (Say). Ithaca, Aug (Rich-CU). On goldenrod.

**TETRALONIA** Spinola<sup>182</sup>

(*Synhalonia* Patton)

- T. robertsoni** Ckll. Garrison, *Cattell* (Lutz&Ckll).

**XENOGLOSSA** Smith

(Subgenus **PEPONAPIS** Robertson)

- X. pruinosa** (Say). Ithaca, Jl-Aug (Rich-CU). On pumpkin and other cucurbits, also milkweed.

SUBFAMILY **XYLOCOPINAE**

**XYLOCOPA** Latreille: CARPENTER BEES

- X. virginica** (Dru.). Ithaca, not common, *Bdy* (Cress-CU). Builds in beams and posts.

SUBFAMILY **CERATININAE**

**CERATINA** Latreille: THE LITTLE CARPENTER BEES

- C. dupla** Say. Ithaca, Ap-Jl (Rich-CU); McLean, May, Sep 16-20 (Roh-CU); Taughannock Falls, May (Rich-CU); **SI**, *Ds* (Ashm). The commonest dweller in sumac branches. Visits red raspberry and goldenrod flowers.

FAMILY **MEGACHILIDAE**<sup>183</sup>

Compiled by M. D. LEONARD

**ANDRONICUS** Cresson

- A. cylindricus** Cress. Ithaca, Taughannock, Je-Jl (Rich-CU).

**ALCIDAMEA** Cresson

- A. producta** Cress. Ithaca, May, *Comstock* (Rich-CU). Nests in sumac and other pithy plants.

**HOPLITIS** Klug

- H. truncata** (Cress.). Ithaca, Je-Jl (Rich-CU).

<sup>182</sup> Lutz and Cockerell point out that *Synhalonia* is probably the correct name for this genus and that *Tetralonia* Spin. is probably a synonym of *Eucera*.

<sup>183</sup> See footnote under family Hylaeidae, page 1021.

**COELOXYS** Latreille

(These bees are social parasites in the nests of Megachile.)

- C. dubitata** Sm. Ithaca, Jl Aug, *Comstock* (Rich-CU); Taughannock, Jl (Rich-CU).  
**C. modesta** Sm. Ithaca, Jl (Rich-CU).  
**C. octodentata** Say. Ithaca, Aug (Rich-CU); **SI**, Jl 30, *Ds* (Ashm). On mountain mint and goldenrod.

**DIANTHIDIUM** Cockerell

(These bees cement fragments together with resin to form their nests.)

- D. jugatorium** (Say). Ithaca, Jl-Aug (Rich-CU).  
**D. notatum** (Latr.). **LI**: Huntington, Aug 19, *Schott* (Roh).

**HERIADES** Spinola

- H. carinatus** Cress. Ithaca, Je-Jl (Rich-CU); Spring Lake, Jl (Rich-CU).

**MEGACHILE** Latreille: LEAF-CUTTER BEES

(Subgenus **MEGACHILE** Latreille)

- M. brevis** Say. Ithaca, Je-Aug (Rich-CU); **SI**, *Ds* (Ashm). On sunflower, goldenrod, and milkweed.  
**M. exilis** Cress. Ithaca, Sep (Rich-CU).  
**M. generosa** Cress. Ithaca, Jl-Aug (Rich-CU).  
**M. mendica** Cress. Ithaca, Jl-Sep (Rich-CU).

(Subgenus **ANTHEMOIS** Robertson)

- M. infragilis** Cress. Ithaca, Je-Aug (Rich-CU). On milkweed and burdock.  
**M. decipiens** Lov. & Ckll. McLean, Aug 31, 1925, *SRobinson* (Roh-CU).

(Subgenus **XANTHOSARUS** Robertson)

- M. latimana** Say. Ithaca, Jl-Aug (Rich-CU); McLean, Jl 19 (Roh-CU); **SI**, Jl, *Ds* (Ashm).  
**M. melanophaea** Sm. Ithaca, Je-Jl (Rich-CU).

(Subgenus **CYPHOPYGA** Robertson)

- M. montivaga** Cress. Ithaca, McLean, Je-Aug (Rich-CU).

(Subgenus **SAYAPIS**)

- M. pugnata** Say. Ithaca, Jl-Aug (Rich-CU).

(Subgenus **DELOMEGACHILE** Viereck)

- M. vidua** Sm. "NY"?

**MONUMETHA** Cresson

- M. albifrons** (Kby.). Ithaca (Rich-CU).

## OSMIA Panzer

(Some Osmiae, known as mason bees, construct their nests of a mixture of sand and clay and some fluid which makes a cement-like mass. Some use vegetable fragments, some nest in snail shells; others line their nests with flower petals.)

- O. albiventris** Cress. Ithaca, Je-Jl (Rich-CU); W. Danby, May (Rich-CU).  
**O. atriventris** Cress. (*proxima* Cress.). Ithaca, Je-Jl (Rich-CU).  
**O. bucephala** Cress. (*latitarsus* Cress., *megacephala* Cress.). Ithaca, May-Je (Rich-CU).  
**O. canadensis** Cress. Ithaca, Je (Rich-CU).  
**O. chalybea** Sm. **SI**, Ap, *Ds* (Ashm).  
**O. collinsiae** Robt. McLean, May 30 (Sand-CU).  
**O. conjuncta** Cress. Ithaca, Ap-Jl (Rich-CU).  
**O. faceta** Cress. Ithaca, Ap-Aug, Norton's Landing, Cayuga L., *SmHH*, Danby (Rich-CU).  
**O. lignaria** Say. Ithaca, Ap-May (Rich-CU). Quince and apple.  
**O. major** Robts. "NY"? On honeysuckle flowers.  
**O. pumila** Cress. (*vicina* Cress.). Ithaca, Ap-May (Rich-CU); McLean, Ap-May (Rich-CU), Jl 15 (Sand-CU). On red-raspberry flowers.  
**O. rustica** Cress. Ithaca, Slaterville, Je (Rich-CU). Lilac.  
**O. simillima** Sm. Ithaca, May-Jl (Rich-CU).

## PROCHELOSTOMA Robertson

- P. philadelphi** Robt. Ithaca, Je (Rich-CU).

## STELIS Panzer

(Subgenus **MICROSTELIS**)

- S. foederalis** Sm. Ithaca, Je (Rich-CU).

(Subgenus **STELIS** Panzer)

- S. lateralis** Cress. Norton's Landing, Cayuga L., *SmHH* (CU); Ithaca, *Comstock* (CU); Albany, Je (NYS); Karner, Je (NYS). A parasite in the nests of *Alcidamia producta* Cress.

FAMILY BOMBIDAE<sup>184</sup>**BOMBUS** Latreille: BUMBLEBEES

(Subgenus **BOMBUS** Latreille)

- B. terricola** Kby. New Russia (Bdy-CU); Keene Val. (Bdy, Beq); Long L. (Bdy-CU); L. Tear (Beq); Essex Falls, *Nic* (Beq); Mt. McIntyre (Bdy-NYS); Mt. Skylight (Beq); Labrador Hollow (Bdy); Crater Club, Aug (Fris); Cranberry L., Jl (Fris); St. Lawrence Co, Aug (Fris); Hermon, Aug (Fris); L. Pleasant (Bdy-NYS); Oneida (Franklin); Syracuse, May, Jl, Sep (Fris); Geneva, May (Fris); Ithaca (Bdy, Beq); Castile, *EABradley*;

<sup>184</sup> The editors are under obligations to Dr. Joseph Bequaert for extensive records in this family. T. H. Frison has also kindly sent in the records known to him.

If the Erlangen List is accepted, the family name *Bombidae* will become *Bremidae*, and the genus and subgenus name *Bombus* will become *Bremus*.

Gannett Hill, Ontario Co, 2000 ft., *Guerlac*&*Bdy*; Taughannock (Bdy-CU); Slaterville (Adams); L. George, *Zab* (Beq); Albany (Bdy-NYS); Blackhead Mt., Greene Co (Beq); Big Ind. Val. (Beq); Oliveria (Beq); Ft. Montgomery, *Schott* (Beq); W. Nyack (Beq); **LI** (Franklin). In the Adirondacks I have taken it as high as 4800 to 5000 ft., where it visits *Ledum groenlandicum*, *Oxycoccus oxycoccus*, and *Potentilla tridentata* (Beq). Essentially a boreal species, and moderately common in the colder part of the State; only one record from the LI district (Bdy).

**B. affinis** Cress. Keene Val., *Not* (Beq); Crater Club, Aug (Fris); Newport (Bdy-NYS); Castile, *EABradley*; Gannett Hill, Ontario Co, 2000 ft. (*Guerlac*); Covert (Bdy-NYS); Ithaca, J1-Aug (Bdy,Fris); Taughannock Bdy-CU); Albany (Bdy-NYS); Big Ind. Val. (Beq); New Kingston (Bdy-CU); Woodbury (Beq); Ft. Montgomery, *Schott* (Beq); Ramapo Mts. (Beq); **SI**, *Ds* (Beq); **LI**: Huntington, *Schott* (Beq); Pennequid Barrens (Beq); Wyandanch, *Schott* (Beq); Massapequa, *Schott* (Beq); Brooklyn (Beq). A transition and upper austral species, moderately abundant in the eastern to southern parts of the State, less common northward (Bdy).

**B. affinis** var. *novae-angliae* Beq. Covert, Labrador Hollow (Bdy-CU); **LI**: Brooklyn, *Schott* (Beq).

**B. borealis** Kby. Keene Val. (Bdy, Beq); Mt. Skylight, 4800 ft., on *Potentilla tridentata* (Beq); Brant L. (Beq); Canton, Aug (Fris); Hermon, Aug (Fris); Syracuse, Aug (Fris); Covert, one female (Bdy-CU); Taughannock, one female, *CarlWillsey* (Bdy); Ithaca (Bdy-CU); Labrador Hollow, four females (Bdy-CU). A boreal and uncommon species, known only from the colder regions of the State (Bdy).

**B. bimaculatus** Cress. Keene Val. (Bdy-NYS); Onondaga Co, May (Fris); Syracuse, May, J1 (Fris); Glenora (*Guerlac*&*Bdy*); Ithaca (Rich-CU); Covert (Bdy-CU); Albany (Bdy-NYS); **SI**, *Ds* (Beq); **LI**: Orient, Farmingdale, Central Pk., Cold Sp. Harb., Oakdale, Yaphank (Beq). A transition and austral species, scarce in NY and largely confined to the warmer districts (Bdy).

**B. impatiens** Cress. New Russia (Bdy-CU); Crater Club, Aug (Fris); Hermon, Aug, Sep, Canton, Aug (Fris); Newport (Bdy-NYS); Gloversville (Bdy-NYS); Syracuse, May, Aug-Sep (Fris); Oak Orchard Swamp, *Ds* (Beq); Otto; Castile, *EABradley*, Gannett Hill, Ontario Co, 2000 ft., *Guerlac* (Bdy); Covert (Bdy-CU); Ithaca; Taughannock (Bdy-CU); Labrador Hollow (Bdy-CU); Ft. Plain (Bdy-NYS); Delmar, Albany, Karner, Cropseyville, Easton (Bdy-NYS); White Plains (Beq); Ramapo Mts. (Beq); Ft. Montgomery (Beq); W. Nyack (Beq); Yonkers (Beq); Van Cort. Pk. (Beq); **SI** (Beq); **LI**: Coram, *Schott* (Beq); Orient, Springs, Gardiners L., Brooklyn, Eng, Rockaway, *Schott*, Wyandanch, Amagansett, Yaphank (all Beq); Forest Hills (Bdy-CU). A very abundant species everywhere except in the mountains, where it is less common and probably absent from the higher altitudes (Bdy).

**B. ternarius** Say. Keene Val. (Bdy, Beq); New Russia (Bdy-CU); Mineville, *DReis* (Bdy); Crater Club, Aug (Fris); Chapel Pond (Bdy); Plattsburg (Beq); Saranac L. (Beq); north face of Mt. Marcy (Bdy-CU); Cranberry L., J1 (Fris); St. Lawrence Co, Aug (Fris); Canton, Aug (Fris); Hermon, Aug (Fris); Syracuse, May (Fris); Castile, *EABradley*; Gannett Hill, Ontario Co, 2000 ft., *Guerlac*; Cinnamon L., Lake Bluff (Bdy); Ithaca (Bdy-CU); Labrador Hollow (Bdy-CU); E. Jewett (Beq); Oliveria, *Ds* (Beq); Cooks Falls (Beq); DeBruce (Beq). Essentially a Canadian and northern transition species, abundant in the Adirondacks, scarce about Ithaca, absent



from the LI districts (Bdy). Smith's record for SI was based upon misidentification; the species is not found near NYC (Beq).

- B. ternarius expallidus** Ckll. Wilmington, Keene Val. (Fris-NYS).
- B. perplexus** Cress. Keene Val., *Not* (Beq); New Russia (Bdy-CU); Cliff Mt. (Beq); Upper Ausable L. (Beq); Crater Club, Aug (Fris); Mt. Marcy (Beq); Cranberry L., J1 (Fris); St. Lawrence Co, Aug (Fris); near Pulaski, *Ds* (Beq); Hermon, Aug (Fris); Syracuse, May, J1 (Fris); Ithaca, Sep (Fris, Bdy); Slaterville (AAdams); Labrador Hollow (Bdy-CU); New Salem, Delmar, *Bish* (Bdy-NYS); Big Ind. Val. (Beq); Olivera (Beq); New Kingston (Bdy-CU); DeBruce, *Ds* (Beq); Ft. Montgomery, *Schott* (Beq); W. Nyack (Beq); **LI**: Cold Sp. Harb., Wyandanch, *Schott* (Beq). In the Adirondacks, I have taken it at 4800-5000 ft., where it visits *Vaccinium uliginosum* (Beq). A Canadian species running well south in the Allegheny Mts. Moderately common in the northern and central part of the State, but rare in the LI district (Bdy).
- B. vagans** F. Sm. Keene Val., *Diven*, *Not* (Bdy, Beq); New Russia (Bdy); Long L. (Bdy); Mt. Marcy, Upper Ausable L., Mt. Skylight (Beq); Mt. Whiteface, *Ds* (Beq); Mt. McIntyre (Bdy-CU); Crater Club, Aug (Fris); Cranberry L., J1 (Fris); Saranac (Bdy-NYS); Wells, *Yg* (Bdy-NYS); Newport (Bdy-NYS); Old Forge (Bdy-NYS); Hermon, Canton, Aug (Fris); St. Lawrence, Aug (Fris); Syracuse, J1-Aug (Fris); Clyde (Bdy-NYS); Gannett Hill, Ontario Co, 2000 ft., *Guerlac*; Castile, *EABradley*; Cattaraugus (Bdy-CU); Covert (Bdy-CU); Ithaca, Sep (Fris); Taughannock (Bdy-CU); McLean (Bdy-CU); Labrador Hollow (Bdy-CU); Karner, New Salem (Bdy-CU); Olivera, Big Ind. Val. (Beq); Poughkeepsie (Bdy-CU); New Kingston (Bdy-CU); Callicoon, *Ds* (Beq); Pine L., *Ds* (Beq); Ft. Montgomery, *Schott* (Beq); **SI**, *Ds* (Beq); **LI**: Cold Sp. Harb., Oakdale, *Schott*, Gardiners I., Flatbush (Beq); Wyandanch, *Schott* (Beq); Half Way Hollow Hills, Montauk, Amagansett, Orient, all *Ds* (Beq); Jamaica, *Schott* (Beq); Riverhead (Bdy-CU). The most abundant species of *Bombus* throughout the greater part of the State. Common, although perhaps less so than others in even the high Adirondacks (Bdy). I have taken this species in the Adirondacks at an altitude of 5000-5200 ft., where it visits *Solidago alpestris*, *Vaccinium uliginosum*, *Oxycoccus oxycoccus*, and *Potentilla tridentata* (Beq).
- B. vagans** var. **coctus** Beq & Plath. **LI**: Flushing, *Eng* (Beq&Plath).
- B. fervidus** (Fab.). Canton, May, Hermon, Aug (Fris); Otter L. (Bdy-CU); DeRuyter (Bdy-CU); Pike (Bdy-NYS); Geneva, May (Fris); Covert (Bdy-CU); Ithaca, Sep (Bdy, Fris); Labrador Hollow (Bdy-CU); Monticello, *Schott* (Bdy-CU); DeBruce, *Ds* (Beq); Mosholu, *Ds* (Beq); White Plains (Beq); Van Cort. Pk. (Beq); **SI** (Beq); **LI**: E. New York, Aqueduct, Greenport, *Ds* (Beq); Flatbush, Jamaica, Little Neck, Oakdale, *Schott* (Beq); Sands Pt., *Bs* (Beq). Essentially a southern species, and one of our most abundant in southern and central NY. Not known from the Adirondacks and Catskills (Bdy).
- B. fervidus** var. **dorsalis** Cress. Covert, Labrador Hollow (Bdy-CU).
- B. americanorum** (Fab.) (*pennsylvanicus* Geer). Mt. Marcy (Bdy-NYS); Otter L. (Bdy-CU); Syracuse, Oct (Fris); Canandaigua L. (Bdy-NYS); Covert (Bdy-CU); Ithaca (Bdy-CU); Taughannock (Bdy-CU); Slaterville (AAdams); Albany (Bdy-CU); White Plains (Beq); **SI** (Beq); **LI**: Oakdale, Coram, *Schott* (Beq); Long Beach, Orient, Gardiners I. (Beq); Wyandanch, *Schott* (Beq); Aqueduct, Montauk, Amagansett, *Ds* (Beq). An abundant southern species, common as far north as central NY, but rare in the mountains (Bdy).

(Subgenus **BOMBIAS** Robertson)

- B. auricomus** Robts. Manlius, *SmHH* (Richmond-CU); Covert (Bdy-CU).
- B. separatus** Cress. New Russia (Bdy-CU); Otter L. (Bdy-CU); Canandaigua L. (Bdy-NYS); Covert (Bdy-CU); Ithaca (Rich, Bdy-CU); Norton's Landing, Cayuga L.; west shore, Cayuga L. (AAdams); Labrador Hollow (Bdy-CU); Karner (Bdy-NYS); **SI**, *Ds* (Beq); **LI**: Bellmore, *Eng* (Beq); Long Beach, Orient, Pennequid Barrens, Gardiners I. (Beq); Wyandanch, *Schott* (Beq); Montauk, Yaphank, *Ds* (Beq). A southern species, rare in central NY and the Adirondacks, more common in the LI district (Bdy).
- B. rufocinctus** Cress. Crater Club (Fris-SyracuseU); Lake Bluff, Sep 3, 1912 (color var. 6, Bdy); Castile, one male, May, *ECBradley* (Bdy-CU). Essentially a Rocky Mountain species, although known from eastern Canada and Vt. To be counted as our rarest species of *Bombus*.

**PSITHYRUS** Lepeletier: USURPER BEES

(Social parasites of bumblebees.)

- P. laboriosus** (Fab.). Crater Club, Aug (Fris); St. Lawrence Co, Aug (Fris); Hermon, Aug (Fris); Cranberry L., Jl (Fris); Otter L. (Bdy-CU); Syracuse, Sep (Fris); Geneva, May (Fris); Covert (Bdy-CU); Norton's Landing, Cayuga L., *SmHH* (Cress-CU); west shore, Cayuga L. (AAdams); Ithaca, *AAdams*, *RLounsberry* (Bdy-CU); Spring Lake (Bdy-CU); Taughannock (Bdy-CU); Hudson Falls (Bdy-NYS); **SI** (Beq); **LI**: Kings Pk., Orient (Beq); Wyandanch, Huntington, *Schott* (Beq); Wading R. (Schott). A transition and upper austral species extending well into Canada. Our most common species. A form of this species with all-black abdomen in the female is not uncommon around Ithaca. It has been taken by Armand Adams, Victor Skiff, Royden Lounsberry, J. C. Bradley, Henry Guerlac, and others, at several localities (Bdy).
- P. insularis** (Sm.). Keene Val., *Not* (Beq, Fris); Ithaca (Franklin-CU).
- P. ashtoni** (Cress.). Keene Val., *Not* (Beq); Mt. Skylight, 4800 ft., on *Potentilla tridentata* (Beq); Hermon (Fris); Gannett Hill, Ontario Co, 2000 ft., *Guerlac*: Covert (Bdy-CU); west shore, Cayuga L. (AAdams); Ithaca (Cress, Franklin-CU); Taughannock (Bdy-CU); Labrador Hollow (Bdy-CU); Big Ind. Val. (Beq); Olivera, *Ds* (Beq); Ft. Montgomery (Schott). This species seems to be confined to the central and northern part of the State; elsewhere its chief distribution seems to be in the Canadian and Northern Transition zones (Bdy).
- P. fernaldae** Franklin. St. Lawrence Co, Aug (Fris); Brant L. (Franklin); Cranberry L., Jl (Fris); Otto (Franklin); Gannett Hill, Ontario Co, 2000 ft., one male, *Guerlac & Bdy*; Ithaca (Franklin); McLean (Beq). A boreal species, known here only from the central and Adirondack regions and very rare (Bdy).

FAMILY **APIDAE****APIS** Linnaeus

- A. mellifica** L. HONEY BEE. Generally distributed throughout the State.

## CLASS ARACHNIDA

## ORDER ARANEAE

Compiled by C. R. CROSBY and S. C. BISHOP

## SUBORDER ARANEAE THERAPHOSAE

## FAMILY ATYPIDAE

## ATYPUS Latreille

**A. niger** Htz. Cornwall, May (Em).

## SUBORDER ARANEAE VERAEE

## FAMILY ULOBORIDAE

## HYPTIOTES Walckenaer

**H. cavatus** Htz. Plattsburg, Sep; Wilmington Notch, Aug; Chapel Pond, Je; Ar' st's Brook, Je; Manlius, Aug; Lake Bluff, Sep; Lewiston, Sep, *Plm*; Silver Ct Sep; Montour Falls, Sep-Oct; Perry City, Sep; Taughannock Falls, Oct; Ith ca, Sep; Waldorf, Sep, *Yg*; Burden L., Aug; Valcour I., Aug; Elizabeth I., Aug; Juanita I., Pearl Pt., Jl; Catskill, Aug, *Chap*; Poughkeepsie, *vanIngen*; Highland, Aug, *Wlf*; **LI**: Riverhead, Sep; Sea Cliff, Sep, *Wlf*, *Taub*.

## ULOBORUS Latreille

**U. americanus** Wlk. Onondaga Co (Britcher); Penn Yan, May; Montour Falls, Sep; Ithaca, Aug, Nov; Enfield Glen, Oct; Taughannock Falls, Oct; Valcour I., Aug; Oakland Val., May; **LI**: Cold Sp. Harb., Je, *Anderson*.

## FAMILY DICTYNIDAE

## AMAUROBIUS C. Koch

- A. americanus** Em. Onondaga Co (Britcher); Ithaca, May; Enfield Glen (Bks); Paradise, May; **LI**: Bayville, Aug (Bks).
- A. bennetti** Blackw. Wilmington Notch, Aug; Wilmington, Aug; Mt. Whiteface, Aug; L. Placid, Sep, *Plm*; Saranac L., Sep, *Plm*; Uphill Br., Opalescent R., Jl; Paul Smiths, Je, *Babiy*; Raquette L., Sep, *Plm*; Chateaugay L., Sep, *Plm*; Big Burnt L., Jl; Gloversville, Sep, *Alex*; Onondaga Co (Britcher); Lake Bluff, Sep; Lewiston, Sep, *Plm*; Clarksburg, Sep; Stow, Sep; Olcott, Sep; Rock City, Sep; Savona, Sep; Oak Ridge, Canandaigua L., Aug; L. Keuka, Sep; Taughannock Falls, Oct; Connecticut Hill, Nov; Spencer, Aug; Ithaca, Mar-Sep; McLean, May; Voorheesville, Je; Kenwood, May, *Plm*; Crystal L., Jl; S. Westerlo, May; Feura Bush, Dec; Queechey L. May, *Schoon*; Vrooman's Nose, May; Valcour I., Aug; Pearl Pt., Juanita I., Jl; Elizabeth I., Aug; Riders Mills, May, *Chrisp*; L. Charlotte, Je; Oakland Val., May; Cragmoor, May; Poughkeepsie (Em); Hunter, Je, Aug, *Schoon*; Stamford, May, *Chrisp*; Sterlington, May; Larchmont, Sep, *Wlf*; **LI**, Nov-Dec (Bks).
- A. borealis** Em. Mt. Whiteface, Aug; Wilmington Notch, Jl-Aug; Wilmington, Aug; Newcomb, Jl; Charley L., Ap; Old Forge, Oct, *Sib*; Italy Hill, Oct; Connecticut Hill, Aug; McLean, May, Jl; Meredith, May; Stamford, Oct; Maratanza L., May; Pinekill, May.
- A. ferox** Walck. Onondaga Co (Britcher); Clyde, Ap, May; Ithaca, Mar, May; Albany, Je; Vrooman's Nose, May; **LI**, Sep (Bks).
- A. tibialis** Em. Mt. Whiteface, Aug (Em).

DICTYNA Sundevall

- D. bicornis* Em. Lake Bluff, Sep; **LI**: Sea Cliff, Je; Bayville (Bks); Watermill, Je; Wading R., Je; Riverhead, Sep.
- D. bostoniensis* Em. Sodus Pt., J1; **SI**: Tottenville, Je; **LI**: Bay Shore, J1 (Bks); Quogue, Je.
- D. brevitarsus* Em. Ithaca (Em); Little Pond, Orange Co, May.
- D. cruciata* Em. Ithaca (Bks); McLean, May-J1; Labrador Pond, Je; **LI**: Flushing, Je; Long Pond, Suffolk Co, Je.
- D. foliacea* Htz. Wilmington Notch, Aug; Wilmington, Aug; Sacandaga Pk., Je, *Alex*; Wells, May, *Yg*; Trenton Falls, Je; Onondaga Co (Britcher); Southwest Oswego, J1; Williamson, Je; Clyde, May; Crusoe L., May; Lake Bluff, Ap; Marilla, J1; Pt. Breeze, Je-J1; Letchworth Pk., J1; Penn Yan, Aug; Taughannock Falls, Oct; Enfield Glen, Je; Cinnamon L., J1; Ithaca, May, Je, Oct; Ringwood, J1; McLean, May, J1; Caroline Center, May; E. Greenbush, Je; Albany, May-Je; Kenwood, May, *Yg*; Tackawasick Pond, Je; Waldorf, Sep, *Yg*; Juanita I., Pearl Pt., J1; Cossayuna L., May, *Schoon*; Valley Falls, May, *Yg*; Schodack Landing, Je; L. Charlotte, Je; Riders Mills, May, *Chrisp*; Wappingers Falls, May; Port Jervis, May; Oakland Val., May; Sterlington, May; **LI**: Cold Sp. Harb., Je, *Anderson*; Sea Cliff, Je.
- D. frondea* Em. Newcomb, J1; Cranberry L. (Barrows); Taughannock Falls, J1; Ithaca (Bks); Clayville, Je; L. Erie beach, Je; Shaker Road, Albany Co, Je; **LI**: Sea Cliff, Aug (Bks); Long Pond, Suffolk Co, Je.
- D. longispina* Em. Sacandaga Pk., Je, *Alex*; Trenton Falls, Je; Ithaca (Bks).
- D. maxima* Bks. Old Forge, Oct (immature); Paul Smiths, Je, *Babiy*; Ithaca (Bks); Caroline Center, May; McLean, May; Labrador Pond, Je; Stamford, May, *Chrisp*.
- D. minuta* Em. Cinnamon L., Je; Ithaca, Ap-May; McLean, Je; Riders Mills, May, *Chrisp*; Sterlington, May; **LI**, Sep (Bks).
- D. quadrispinosa* Em. Black Br., Je; Vrooman's Nose, May.
- D. rubra* Em. Onondaga Co (Britcher).
- D. sublata* Htz. Cranberry L. (Barrows); Raquette Falls, Aug; Gloversville, Mar, *Alex*; Johnstown, J1; Saratoga, Je; Labrador Pond, May, *Tarris*; Savannah, May; Lake Bluff, Ap; Pt. Breeze, Je; Olcott, Feb, *Dt*; Buffalo, Je; Keuka Pk., Nov; Stanley, May; Crosby, Ap; Ithaca, May; West Winfield, Je; Red Hook, J1, *Plunk*; Poughkeepsie; Germantown, Je; Stamford, May, *Chrisp*; **LI** (Bks).
- D. volucripes* Key. Wilmington Notch, Aug; Newcomb, J1; Speculator, J1, *Yg*; Cranberry L. (Barrows); Peru, Je; Gloversville, Je-J1, *Alex*; Onondaga Co (Britcher); Chautauqua Co, *Palmer*; Sodus, J1; Oak Ridge, Canandaigua L., Aug; Junius, Je; Penn Yan, Sep; Ithaca, J1-Aug; Ringwood, J1; Deruyter L., J1; Trenton Falls, Je; Albany, May; Thacher Pk, Je; Valcour I., Aug; Germantown, Je; Little Pond, Orange Co, May; Oakland Val., May; **LI** (Bks).

LATHYS Simon

- L. foxii* Marx. Barrington, Oct; Ithaca, *Comst*; Enfield Glen, Ap; Altamont, Ap; Vrooman's Nose, May; Silver Bay, Sep, *Leon*; Juanita I., Aug; L. Charlotte, Je; Cragmoor, May; Sam's Pt., Ulster Co, May.

## SCOTOLATHYS Simon

- S. maculata** Bks. **LI**: Riverhead, Ap-May.  
**S. pallida** Marx. Newfane, Oct; West Barre, Sep; Rock City, Sep; Rye Pt., Sep; Savona, Sep; Ithaca, Aug-Oct; Freeville, Aug; Labrador Pond, Je; Meadowdale, May; Feura Bush, Dec; Voorheesville, May-Je; Karners, Mar; Vrooman's Nose, May; Valcour I., Aug; Juanita I., Jl-Aug; Storm King Mt., Jl; Sam's Pt., and Maratanza L., May; Oakland Val., May; **LI**: Baiting Hollow, Ap-May; Southold, Ap; Riverhead, May.

## FAMILY SICARIIDAE

## SCYTODES Latreille

- S. thoracica** Lat. Ithaca, Jl; Onondaga Co (Britcher); Rensselaer, Aug, *Schoon*; Troy (Htz); **LI**: Sea Cliff (Bks).

## FAMILY OONOPIDAE

## ORCHESTINA Simon

- O. saltitans** Bks. **LI**: Sea Cliff, Jl (Bks).

## FAMILY DYSDERIDAE

## ARIADNA Audouin

- A. bicolor** Htz. Wappingers Falls, May; **LI** (Bks).

## DYSDERA Latreille

- D. crocata** C. Koch. Syracuse (Britcher); Ithaca, Jl (Comst); Rensselaer, Ap, *Kilf*; Poughkeepsie, *vanIngen*.

## FAMILY GNAPHOSIDAE

## CALLILEPIS Westring

- C. imbecilla** Key. Ithaca (Bks); **LI**: Cold Sp. Harb., *Bryant*; Sea Cliff (Bks).

## CESONIA Simon

- C. bilineata** Htz. Spafford (Britcher); L. Keuka; Ithaca, Aug (Comst); Oak Ridge, Canandaigua L., Aug; Valcour I., Aug; Elizabeth I., Aug; Poughkeepsie, *vanIngen*; Waterford, Ap; Larchmont, Sep, *Wlf*; **LI**, Sep (Bks).

## DRASSODES Westring

- D. neglectus** Key. Adirondack Lodge, Jl; Onondaga Co (Britcher); Lake Bluff, Sep; Rochester, Nov, *Chad*; Crocketts, Sep, *Chap*; Connecticut Hill, Oct; Ithaca, Aug-Oct, *Comstock* (Bks); McLean, Je; Lawson L., May; Crystal L., Jl; Mud Hollow Pond, Je; S. Westerlo, May; Dormansville, Je; Vrooman's Nose, May; Hunter, Je, *Plm*; Elizabeth I., Aug; Juanita I., Pearl Pt., Aug; Black Mt., Aug; Stamford, Je; **LI**: Gardiners I., May.



## DRASSYLLUS Chamberlin

- D. aprilius* Bks. **LI**: Sea Cliff, *Bks.*  
*D. blandus* Bks. Ithaca (*Bks.*).  
*D. depressus* Em. Onondaga Co (Britcher); Dunkirk; Ithaca, Oct (*Bks.*); Danby, May; Albany, Je; Voorheesville, Je; Rensselaer, J1; Dormansville, Je; **LI**: Sea Cliff, *Bks.*  
*D. fallens* Chamb. **LI**: Sea Cliff (*Chamb.*).  
*D. frigidus* Bks. Gloversville, Mar; Ithaca, Feb (*Bks.*); **LI**: Sea Cliff, Sep (*Bks.*).  
*D. rufulus* Bks. Onondaga Co (Petrunkévitch); Ithaca, Sep-Oct (*Bks.*); Lake Bluff, Sep; **LI**: Cold Sp. Harb. (Em); Sea Cliff (Em); Riverhead, Sep.  
*D. virginianus* Chamb. **LI**: Sea Cliff (*Chamb.*).

## GEODRASSUS Chamberlin

- G. auriculoides* Barrows. Greenville, Ap; Wappingers Falls, May.  
*G. phanus* Chamb. **LI**: Sea Cliff (*Chamb.*).

## GNAPHOSA Latreille

- G. brumalis* Thor. Mt. Marcy, J1, 5000 ft.; Mt. Whiteface, Aug.  
*G. fontinalis* Key. Ithaca (*Bks.*).  
*G. gigantea* Key. Mt. Whiteface, Aug; Adirondack Lodge, J1; N. Elba, J1; Upper Jay, Sep, *Plm*; Chapel Pond, Je; Paul Smiths, Je, *Babiy*; Gloversville, Ap, Aug, *Alex*; Onondaga Co (Britcher); Ithaca, Jan, J1 (Comstock); Freeville, *Bks*; McLean, Je, *Bissell*; Danby, May; Valcour I., Aug; Dormansville, Je; Voorheesville, Je, Aug; Normansville, Je; Mud Hollow Pond, Je; L. Charlotte, Je; Vrooman's Nose, May; Juanita I., J1; Black Mt., Washington Co, Aug; Elizabeth I., J1-Aug; Hunter, Je, *Plm*; Sullivan Co (Key); Poughkeepsie (Em); NYC (*Bks.*).  
*G. parvula* Bks. L. Placid, Sep, *Plm*; Gloversville, Mar, *Alex*; Crystal L., J1; Mt. Lebanon, May, *Chrisp*; **LI**: Cold Sp. Harb., J1, *Bryant*; Riverhead, Je; Montauk Pt., May.  
*G. sericata* L. Koch. **SI**: Tottenville, Je; **LI**: Sea Cliff, *Bks.*

## HAPLODRASSUS Chamberlin

- H. hiemalis* Em. Ithaca, May; Freeville; McLean, Je.  
*H. signifer* C. Koch. Onondaga Co (Britcher); Ithaca; Pike Pond, Rensselaer Co, Je; **LI**: Sea Cliff, *Bks*; Gardiners I., May.

## HERPYLLUS Hentz

- H. vasifer* Walck. Wells, Je-J1, *Yg*; Sacandaga Pk., Je, *Alex*; Gloversville, May, *Alex*; Onondaga Co (Britcher); Lake Bluff, J1, Sep; Clyde, Aug; Otto, Jan, *Comstock*; Wilmurt, Aug, *Plm*; Rochester, Nov; Hemlock, Aug; L. Keuka, Ap, Sep-Oct; Oak Ridge, Canandaigua L., Aug; Taughannock Falls, Oct; Ithaca, Sep, Nov; Freeville, Sep; Juanita I., J1; Albany, J1, *Hartman*; Poughkeepsie, *vaningen*; **LI**: Lynbrook, Oct; Sea Cliff, *Bks.*

**LITOPYLLUS** Chamberlin

**L. ruficolens** Chamb. **LI**: Sea Cliff (Chamb).

**POECILOCHROA** Westring

**P. montana** Em. Ithaca, Mar (Bks).

**SERGIOLUS** Simon

**S. variegatus** Htz. Silver Bay, Sep, *Leon*; Ithaca, May, *Bks*, J1, *Bryant*; Feura Bush, Dec; **LI**: Long Pond, Suffolk Co, Je.

**SOSTICUS** Chamberlin

**S. insularis** Bks. **LI**: Sea Cliff (Bks).

**ZELOTES** Gistel

**Z. duplex** Chamb. **LI**: Sea Cliff.

**Z. subterraneus** C. Koch. Mt. Whiteface, Aug; Mt. Marcy, J1; Crater Club, Essex Co, Aug; Cranberry Cr., Aug; Onondaga Co (Britcher); Lake Bluff, Sep; Ithaca (Bks); Karner, Ap; Mud Hollow Pond, Je; Voorheesville, Je; Pearl Pt., Aug; Juanita I., J1; Riders Mills, May; Stamford, May, *Chrisp*; Hunter, Aug; **LI**: Sea Cliff, *Bks*; Montauk Pt., May; Gardiners I., May.

FAMILY **PHOLCIDAE****PHOLCUS** Walckenaer

**P. phalangioides** Fuess. Ithaca, all months in buildings; Syracuse (Britcher); Albany, May, Sep, *Yg*; Cobleskill; Catskill, Aug-Sep, *Chad*; Poughkeepsie, *vanIngen*; **LI**: Brooklyn (Bks).

**SPERMOPHORA** Hentz

**S. meridionalis** Htz. Ithaca, J1; Poughkeepsie, *vanIngen*; **LI** (Bks).

FAMILY **THERIDIIDAE****ANCYLORRHANIS** Simon

**A. hirsutum** Em. Wolcott, May; Olcott, Sep-Oct, *Dt*; Clarksburg, Sep; L. Keuka, Sep-Oct, Dec; Alpine, Nov; Rye Pt., Sep; Connecticut Hill, Aug, Oct-Nov; Enfield Glen, May, Oct; Ithaca, May, Aug, Nov; Freeville, Oct; McLean, J1; Jenksville, Oct; Delaware L., May; Accord, Mar; **SI**: Clove Val., Nov; **LI**: Sea Cliff (Em).

**ARGYRODES** Simon

**A. cancellatus** Htz. Onondaga Indian Reservation (Britcher); **LI**: Sea Cliff (Bks); Cold Sp. Harb. (Em).

**A. trigonum** Htz. Penn Yan, May, Aug; Onondaga Co (Britcher); Letchworth Pk., J1; Enfield Glen, Je, Oct; Ithaca, J1, Oct; Albany (Em); Riders Mills, May; Oakland Val., May; **LI**, J1 (Bks).

## ASAGENA Sundevall

- A. americana** Em. Gloversville, Mar–Ap, *Alex*; Barneveld, May; Onondaga Co (Britcher); Lake Bluff, Sep; Ithaca, May–Je, Oct, Nov; Schoharie, May (Em); Albany, Ap; Poughkeepsie, *vanIngen*; **LI**: Sea Cliff, Je (Bks); Baiting Hollow, May; Long Pond, Suffolk Co, Je; Riverhead, Je.

## CRUSTULINA Menge

- C. guttata** Wider. Cranberry Cr., Aug; Onondaga Co (Britcher); Ithaca, Nov–Dec; Black Mountain Pt., Washington Co, Aug; Kenwood, Ap, *Chad*; **LI**: Sheepshead Bay, May; Southold, Ap; Baiting Hollow, Ap; Riverhead, Ap–May; Montauk Pt., May.
- C. sticta** Cambr. Weedsport, Ap; Ithaca, Mar–May; Saratoga Sps., Ap; Rensselaer, Ap, *Schoon*; Guilderland Center, May; Thacher Pk., May; Trenton Falls, Je; Little Pond, Orange Co, May.

## DIPOENA Thorell

- D. buccalis** Key. Enfield Glen, Aug, *Wlf*, *Taub*; NY (Marx); **LI**: Long Pond, Suffolk Co, Sep, *Chap*.
- D. nigra** Em. Adirondack Lodge, J1; Newcomb, J1; Johnstown, J1; Onondaga Co (Britcher); Westview, J1; Letchworth Pk., J1; Howard, J1; Connecticut Hill, Je, Oct; Ithaca, Je, Aug; McLean, May, J1; Labrador Pond, Je; Ringwood, Tompkins Co, Je, Oct; Trenton Falls, Je; Valcour I., Aug; Juanita I., J1; Oakland Val., May; Larchmont, Sep, *Wlf*; **LI**: Long Pond, Suffolk Co, Je.
- D. pallida** Em. **LI**: Riverhead, Ap.

## ENOPLOGNATHA Pavesi

- E. marmorata** Htz. Johnstown, May, *Alex*; Onondaga Co (Britcher); Sodus Pt., J1; Taughannock Falls, Oct; Ithaca, May, J1; Rensselaer, Je, *Schoon*; Albany, Ap, Aug, *Yg*, *House*; Normansville, J1; Claverack, Mar; Wappingers Falls, May; Highland, Ap; Oakland Val., May; **SI**: Tottenville, Je; **LI** (Bks).
- E. pallida** Em. Ithaca, May.

## EURYOPIS Menge

- E. argentea** Em. **SI**: Clove Val., Nov.
- E. funebris** Htz. Newcomb, J1; Onondaga Co (Britcher); Letchworth Pk., J1; Ithaca, Aug, Oct; Thacher Pk., Je; Valcour I., Aug; **LI**: Wading R., Je; Long Pond, Suffolk Co, Je.
- E. quinque-maculata** Bks. **LI**: Wading R., Sep, *Chap*.
- E. spinigera** Cambr. **LI**: Riverhead, Sep.

## LATRODECTUS Walckenaer

- L. mactans** Fab. Lewiston, Sep, *Plm*; **LI**: Woodhaven, *Ditmars*.

## LITHYPHANTES Thorell

- L. corollatus** L. **LI**: Glen Cove, Jan, Oct (Bks); Bayville, Jan, Oct (Bks); Baiting Hollow, May.

## MYSMENA Simon

**M. guttata** Bks. **LI**, Je, Oct (Bks).

## PAIDISCA Bishop and Crosby

**P. marxi** Cros. **LI**: Riverhead, Ap-May.

PEDANOSTETHUS Simon (See *Robertus*)

## RHOMPHAEA L. Koch

**R. fictilium** Htz. Onondaga Co (Britcher); **LI**: Sea Cliff, Sep-Oct (Bks).

## ROBERTUS Cambridge

**R. fuscus** Em. Mt. Whiteface, Aug; Uphill Br. and Opalescent R., Jl; High Falls, Aug; Wilmington Notch, Aug.

**R. palustris** Bks. Old Forge, Oct, *Sib*; Howland I., Nov; Ithaca, Feb, *Bks*; McLean, May; Rensselaer, May, *Schoon*; Maratanza L., May; Suffern, May; **LI**: Flushing, Nov.

**R. pumilus** Em. Auger Pond, Nov; Cranberry Cr., Aug; Clarksburg, Sep; West Barre, Sep; Savona, Sep; Italy Hill, Oct; Eggleston's Glen, Sep; Ithaca, May; McLean, Ap-May; Ringwood, May; Larchmont, Sep, *Wlf*.

**R. riparius** Key. Upper Jay, Sep, *Plm*; Wilmington Notch, Jl-Aug; High Falls, Aug; Wilmington, Aug; Elizabethtown, Aug; Old Forge, Oct; Howland I., Nov; Cascade, Owasco L., Nov; Connecticut Hill, Oct; Guyanoga, Je; Enfield Glen, Aug; Ithaca, Mar, Dec; Freeville, Sep; Ringwood, Je; McLean, Ap-Je; Labrador Pond, Je; W. Winfield, Je; Rensselaer, May; Silver Bay, Sep, *Leon*; Pearl Pt., Je; Nassau, Aug; Highland, Mar; Maratanza L., May; Pinekill, May; Oakland Val., May; **LI**: Southold, Ap; Riverhead, Ap, Sep; Long Pond, Suffolk Co, Je.

**R. spiniferus** Em. Karner, Mar; Goshen, May.

**R. terrestris** Em. Ithaca, *Em*; Cornwall, *Em*.

## SPINTHARUS Hentz

**S. flavidus** Htz. Taughannock Falls, Oct; Ithaca, Aug-Sep; **LI**, Aug (Bks).

## STEATODA Sundevall

**S. borealis** Htz. Wilmington, Aug; L. Placid, Sep, *Plm*; Watertown, Sep, *Plm*; Green L., Fulton Co, Jan, *Dt*; Gloversville, Mar-Apr, *Alex*; Wells, Jl, *Yg*; Onondaga Co (Britcher); Clyde, Aug, Dec; Cayuga, Aug; Rochester, Nov; Silver Cr., Sep; L. Keuka, May, Je, Oct; Bluff Pt.; Cayuta L., Nov; Ithaca, all months; Dormansville, Je; Albany, May, Aug, *Chrisp*; Thacher Pk., May-Je; Kenwood, Ap, *Chad*; Greenville, Ap; Rensselaer, Jan, Oct, *Schoon*; Nassau, Je, *Schoon*; Valcour I., Aug; Juanita I., Jl; Cossayuna L., May, *Schoon*; Waterford, Jan, *Chrisp*; Stockport Sta., Sep; Catskill, Je, Sep, Dec, *Chad*; Poughkeepsie, *vanIngen*; Suffern, May; Goshen, May; Hunter, Je; **SI**: Jan, *Ds*; Clove Val., Nov; **LI**: Sheephead Bay, Je-Jl; Jamaica, Nov; Riverhead, Aug.

TEUTANA Simon

- T. triangulosa** Walck. Onondaga Co (Britcher); Ithaca, Jl-Sep; Poughkeepsie, *vanIngen*; **LI**: Sea Cliff (Bks).

THEONOE Simon

- T. stridula** Cros. Paul Smiths, Je, *Babiy*; West Barre, Sep; Penn Yan, May; Alpine, Nov; Enfield Glen, Oct; Ithaca, Oct; McLean, Ap-Jl; Labrador Pond Je; Altamont, Ap; Voorheesville, May-Je; Little Pond, Orange Co, May; **LI**: Southold, Ap; Riverhead, Je, Aug.

THERIDION Walckenaer

- T. albidum** Bks. **LI**: Sea Cliff (Bks).
- T. aurantium** Em. Axton (Em); Wilmington Notch, Je, Aug (Em); Newcomb, Jl; Labrador Pond, Je.
- T. blandum** Htz. **LI**, Jl (Bks).
- T. cinereum** Em. Peru, Je; Danby, May; **LI**: Sea Cliff (Em).
- T. differens** Em. Wilmington, Aug; Wilmington Notch, Jl; L. Tear, Jl; Axton (Em); Black Br., Je; Peru, Je; Wells, May, *Yg*; Saratoga, Je; Gloversville, Je, *Alex*; Thacher Pk., May; Sacandaga Pk., Je, *Alex*; Onondaga Co (Britcher); Webster, Jl; Pt. Breeze, Je; Howard, Jl; N. Lansing, Je; Penn Yan, May, Aug; Taughannock Falls, May; Enfield Glen, May; Ithaca, May-Jl; Freeville, Aug; McLean, May, Sep; Labrador Pond, May, Je, *Tarris*; Trenton Falls, Je; Clayville, Je; Dormansville, Je; S. Westerlo, May; Vrooman's Nose, May; L. Charlotte, Je; Burden L., Aug, *Schoon*; Tackawasick Pond, Je; Valcour L., Aug; Pearl Pt., Juanita L., Jl-Aug; Bumps Pond, Jl; Little Pond, Orange Co, May; Oakland Val., May; **LI**: Baiting Hollow, May; Shinnecock Hills, Je; Long Pond, Suffolk Co, Je.
- T. frondeum** Htz. Mt. Marcy, Sep; Wilmington Notch, Jl; Black Br., Je; Cranberry L. (Barrows); Wells, Jl, *Yg*; Sacandaga Pk., Je, *Alex*; Mountain L., Je, *Alex*; Woodworth's L., May, *Alex*; Johnstown, Aug, *Alex*; E. Caroga L., Aug, *Hoffman*; Baldwinsville, *Bks*; Trenton Falls, Je; Oneida, Jl; Southwest Oswego, Jl; Lake Bluff, Sep; Letchworth Pk., Jl; Lakeside Pk., Orleans Co, Jl; Westview, Livingston Co, Jl; Bean Station, Steuben Co, Jl; Cinnamon L., Jl; Taughannock Falls, Je; Ithaca, Je, Aug; McLean, Jl; Deruyter L., Jl; Labrador Pond, Je; Elmira, Jl; Schenectady, Je; Albany, Je, Sep; Thacher Pk., Je; Rensselaer, Je-Jl; Central Nassau, Jl; Tackawasick Pond, Je; Valcour L., Aug; Hague, Aug; Poughkeepsie, *vanIngen*; Yonkers, Jl; **SI**: Richmond, Jl, *Burns*; **LI**: Cold Sp. Harb., Je; Sea Cliff, Je; Smithtown, Je; Jamaica, Je.
- T. globosum** Htz. Onondaga Co (Britcher); Central Nassau, Jl; **LI**: Cold Sp Harb. (Em).
- T. kentuckyense** Key. Letchworth Pk., Jl; Enfield Glen, Aug; Thacher Pk., Je; Stamford, May, *Chrisp*; **LI**: Long Pond, Suffolk Co, Je.
- T. maxillare** Em. Valcour L., Aug.
- T. montanum** Em. Mt. Whiteface, Aug; Mt. Marcy, Sep; L. Tear, Jl; Mt. McIntyre, Jl; Wilmington Notch, Aug; Artist's Brook, Je; Bumps Pond, Jl; Slide Mt., Je.
- T. murarium** Em. Wilmington, Aug; Cranberry Cr., Aug; Cranberry L. (Barrows); Trenton Falls, Je; Onondaga Co (Britcher); Southwest Oswego, Jl; Webster, Jl; Lakeside Pk., Jl; Marilla, Jl; Letchworth Pk., Jl; Penn Yan,



- May, Aug; Cinnamon L., J1; Cayuta L., J1; Ithaca, Je; McLean, J1; Spencer, Aug; Ringwood, Je; Albany, J1; Dormansville, Je; Shelving Rock Mt., J1; Elizabeth I., J1; Red Hook, J1; Wappingers Falls, May; **LI**: Sheephead Bay, J1; Yaphank, Aug, *Shoe*; Riverhead, Aug; Shinnecock Hills, Je; Water Mill, Je.
- T. pennsylvanicum** Em. **LI**: Cold Sp. Harb., Aug (Em).
- T. rupicola** Em. Onondaga Co (Britcher); Ithaca, Jan, J1, Sep, Dec; Freeville, Aug; S. Westerlo, May; Poughkeepsie, *vanIngen*; Larchmont, Sep, *Wlf*.
- T. sexpunctatum** Em. Mt. Whiteface, Aug; Wilmington, Aug; Mt. Marcy, Sep; Mt. McIntyre, J1; Avalanche Lake, J1; Chapel Pond, Je; Uphill Br., Opalescent R., J1; Onondaga Co (Britcher); Guyanoga, Je; Eggleston's Glen, Sep; Connecticut Hill, Nov; Enfield, Aug, *Wlf*, *Taub*; Ithaca, May; Ringwood, May, *Dt*; Tackawasick Pond, Je; Pearl Pt., J1.
- T. spirale** Em. Axton, *MacG&Houghton*; Keeseville, Je; Onondaga Co (Britcher); Howard, J1; Loucks Pond, J1; Stanley, May; Penn Yan, Aug; Levanna, J1; Cinnamon L., J1, Sep; Enfield Glen, Aug, Oct; McLean, J1; Freeville, Aug; Trenton Falls, Je; Albany, Je, J1; Vrooman's Nose, May; Riders Mills, May; Central Nassau, J1; Tackawasick Pond, Je; Valcour I., Aug; Juanita I., J1; Shelving Rock Mt., J1; **LI**: Cold Sp. Harb., Je.
- T. tepidarium** C. Koch. Wells, J1, *Yg*; Gloversville, Aug, Oct, *Alex*; Baldwinsville (Bks); Cazenovia, Sep; Lake Bluff, Aug; Clyde; Rochester; Hemlock L., Aug; Irving, Sep, *Chad*; Cayuga, Oct; Naples, Aug; Ithaca; Albany, Jan, Aug-Oct; Slingerlands, Mar, *Wlf*; Rensselaer, Je, Oct, *Schoon*; Valcour I., Aug; Cossayuna L., May, *Schoon*; Poughkeepsie, *vanIngen*; Highland, Aug, *Wlf*; Kingston, Aug, *Schoon*; Catskill, Aug-Sep; Saugerties, Aug; **LI**: Sea Cliff, Je (Bks); Forest Hills, Sep; Jamaica, Oct-Nov, *Wlf*.
- T. unimaculatum** Em. Ithaca, Ap, Nov; Albany, Je; Voorheesville, Je; Rensselaer, J1, *Schoon*; Tackawasick Pond, Je; Oakland Val., May; **LI**: Cold Sp. Harb., Je, *Anderson*; Shinnecock Hills, Je; Long Pond, Suffolk Co, Je.
- T. zelotypum** Em. Adirondacks (McCook); Bumps Pond, J1.

## THERIDULA Emerton

- T. opulenta** Walck. Cranberry L. (Barrows); Johnstown, Aug, *Alex*; Ithaca, Je; McLean, Je, J1; Labrador Pond, Je; Apulia, Onondaga Co (Britcher); Albany, Je, J1; Central Nassau, J1; Oakland Val., May; **LI**: Cold Sp. Harb., Je, *Anderson*.

## ULESANIS L. Koch

- U. americana** Em. Jamesville (Britcher); Marilla, J1; Ithaca, Aug, *Wlf*, *Taub*; Mt. Marion, Oct, *Chad*; Oakland Val., May; **LI**: Riverhead, May.

## FAMILY LINYPHIIDAE

## ARAEONCUS Simon

- A. pedalis** Em. Mountain L., Ap; Altamont, Ap.

## BATHYPHANTES Menge

- B. alboventris** Bks. Wilmington Notch, Aug; Mt. Whiteface, Aug; Malone, Oct; Little Falls, J1; Castile, May; Enfield Glen, Oct; Sheldrake Sps., Nov; Ithaca, Oct, Nov; McLean, Sep; Rensselaer, Nov, *Schoon*; Riders Mills, May.

- B. alpinus** Em. Wilmington, Aug; Mt. Whiteface, Aug; Newcomb, J1; Uphill Br., Opalescent R., J1.
- B. angulatus** Em. Ithaca (Bks); Rye Pt., Sep; Crosby, Nov; Little Pond, Orange Co, May; **LI**, J1 (Bks).
- B. bihamatus** Em. Maratanza L., May.
- B. brevis** Em. Wilmington Notch, Aug (Em).
- B. canadensis** Em. Mt. Marcy, J1.
- B. complicatus** Em. Uphill Br., Opalescent R., J1.
- B. concolor** Reuss. Lake Bluff, Sep; Wayne Center, Mar; Ithaca, Mar-Sep, Nov-Dec; Albany, J1; Rensselaer, May, *Schoon*; Coxsackie, Mar; Kingston, Aug, *Schoon*; Poughkeepsie, *vanIngen*; **LI**: Aug-Oct (Bks); Bergen Beach, Ap; Brooklyn, Oct; Sea Cliff (Em).
- B. conicus** Em. Ithaca, Ap, Nov-Dec; Little Pond, Orange Co, May.
- B. crosbyi** Em. Uphill Br., Opalescent R., J1.
- B. decoratus** Bks. Ithaca, Sep (Bks); **LI** (Rks).
- B. formicus** Em. Honeoye Falls, J1; Ithaca, Aug-Sep; Freeville, Aug (Bks); **LI**: J1-Aug (Bks); Sea Cliff, *Em*.
- B. furcatus** Em. Mt. Whiteface, Aug (Em); Avalanche L., J1.
- B. inornata** Em. (not *B. inornata* Bks.). Mt. Whiteface, Aug (Em).
- B. intricatus** Em. Crosby, Dec; Eggleston's Glen, Oct; Shurger's Gorge, Nov; McLean, Ap.
- B. luteolus** Bks. Ithaca, Nov (Bks).
- B. micaria** Em. Guilderland Center, May; **LI**, J1 (Bks).
- B. nigrinus** Westr. Wilmington, Aug; Uphill Br., Opalescent R., J1; Lake Bluff, Sep; Newfane, Oct; Richburg, Sep; Enfield Glen, Ap, Sep, Nov; Ithaca, Ap, Aug-Sep, Nov; McLean, J1; Rensselaer, May, Aug, Nov, *Schoon*; Tackawasick Pond, Je; Riders Mills, May; Stamford, May; **LI**, Oct (Bks).
- B. pallidus** Bks. Ithaca, Ap, Oct, Dec (Bks).
- B. subalpinus** Em. Wilmington, Aug; Mt. Whiteface, Aug; Ithaca (Bks); Thacher Pk., Je.
- B. tristis** Bks. Ithaca, Nov (Bks).
- B. unimaculatus** Bks. Weedsport, Ap; Ithaca, J1, Feb; **LI**: Riverhead, Ap; Montauk Pt., May.
- B. zebra** Em. Old Forge, Oct; Wilmington Notch, J1-Aug; Wilmington, Aug; Mt. Whiteface, Aug; Auger Pond, Nov; Howland I., Nov; Richburg, Sep; Crosby, Dec; Enfield Glen, Oct; Ithaca, Sep-Oct; Freeville, May; McLean, Ap-May; Eggleston's Glen, Oct; Silver Bay, Sep, *Leon*; Juanita I., J1; Poughkeepsie, *vanIngen*; Slide Mt., Je; Maratanza L., May; Cragmoor, May; Oakland Val., May; Stamford, May, *Chrisp*; Tuxedo, Oct, *Wlf*.
- B. zygius** Key. Ithaca, J1; McLean, Ap; Poughkeepsie, *vanIngen*; **LI**, Oct (Bks).

CASEOLA Emerton

- C. alticeps** Em. Thacher Pk., May.

CERATICELUS Simon

- C. alticeps** Fox. **LI**: Baiting Hollow, Ap-May; Long Pond, Suffolk Co, Je; Cold Sp. Harb., J1-Aug, *Bryant*; Riverhead, Ap, Sep.

- C. atriceps** Cambr. Wilmington Notch, Aug; Mt. Whiteface, Aug; Adirondack Lodge, J1; Mt. McIntyre, J1; L. Tear, J1, Sep; Mt. Marcy, Sep; Chapel Pond, Je; Uphill Br., Opalescent R., J1; Wells, Ap-May, *Yg*; Bumps Pond, J1; Mountain L., Ap, *Alex*; L. Keuka, Dec; Enfield Glen, Oct; Ithaca, Feb-Apr, Oct; McLean, Ap-May, Oct; Jenksville, Oct; Onondaga Val., Je (Britcher); Hunter, Aug; Little Pond, Orange Co, May; Oakland Val., May.
- C. bulbosus** Em. McLean Bogs, May-Je; Tully, Oct (Britcher).
- C. carinatus** Em. Oakland Val., May.
- C. emertoni** Cambr. L. Tear, J1; Black Br., Je; Sacandaga Pk., Je, *Alex*; Barneveld, J1-Sep; Canastota, Nov; Pt. Breeze, Je; Letchworth Pk., J1; Honeoye, J1; Geneva, Nov; Bluff Pt., Sep; L. Keuka, Oct, Dec; Horseheads, Ap; Ithaca, Mar-Nov; McLean Bogs, Sep; Ringwood, May; Nassau L., Ap; Cocksackie, Mar; **LI**: Cold Sp. Harb., J1-Aug; Oyster Bay, *Chamb*.
- C. fissiceps** Cambr. Wilmington Notch, Aug; Mt. Whiteface, Aug; Mt. Marcy, Aug; Chapel Pond, Je; Northumberland Township, Saratoga Co, Je; Cranberry Cr., Aug; Bumps Pond, J1; Mountain Lake, Ap; Trenton Falls, Je; Syracuse (Britcher); N. Fair Haven, J1; Lake Bluff, Sep; East Bay, Sep; Stow, Sep; Rock City, J1-Aug; Letchworth Pk., J1; Guyanoga, Je; Penn Yan, Aug; Crosby, Ap, Oct, Dec; L. Keuka, Je, Dec; Cinnamon L., J1; Montour Falls, Oct; Taughannock Falls, Aug, Oct; Enfield Glen, May, Aug; Ithaca, Ap-Dec; Ringwood, J1, Oct; Freeville, J1-Aug, Oct; McLean Bogs, Ap-May, J1; Spencer, Aug; Labrador Pond, Je; Owego, Dec; Tully, Oct; Jenksville, Oct; Apalachin, May; Voorheesville, Je; Riders Mills, May; Schodack Landing, Je; Tackawasick Pond, Je; Valcour I., Aug; Poughkeepsie, *vanIngen*; Slide Mt., Je; Highland, Mar; Oakland Val., May; Mountaineville, May; Mt. Utsayantha, Oct; Larchmont, Sep, *Wlf*; **LI**: Farmingdale, Je; Riverhead, Ap-May, Aug; Long Pond, Suffolk Co, Je; Cold Sp. Harb., J1-Aug; Oyster Bay, *Chamb*; Montauk Pt., May.
- C. formosus** Bks. Ithaca, Sep (Bks); **LI**: (Bks); Sea Cliff, *Fox*.
- C. laetabilis** Cambr. Wilmington Notch, Aug; High Falls, Aug; Auger Pond, Nov; L. Pleasant, Ap; Pinnacle Mt., Aug; Clarksburg, Sep; Stow, Sep; Rock City, Sep; Letchworth Pk., J1; Penn Yan, May, Aug; Eggleston's Glen, Yates Co, Sep; L. Keuka, Ap, Dec; Rye Pt., Sep; Savona, Sep; Interlaken, J1; Taughannock Falls, J1; Montour Falls, Oct; Alpine, Nov; Connecticut Hill, Oct-Nov; Enfield Glen, Aug, Oct; Ithaca, all months; Danby, Oct; Freeville, May, Oct; McLean Bogs, Sep; Deruyter L., J1; Cascade, Nov; W. Winfield, Je; Apalachin, May; Belden Hill, Broome Co, May; Delaware L., May; Meredith, May; Valcour I., Aug; Silver Bay, Jabe Pond, Sep, *Leon*; Juanita I., Pearl Pt., J1; S. Westerlo, May; Mt. Utsayantha, Oct; Cragmoor, May; Sam's Pt., May; Slide Mt., Je; Oakland Val., May; Pinekill, May; Tuxedo, Oct, *Wlf*; **LI** (Bks).
- C. laetus** Cambr. McLean Bogs, May-Je.
- C. laticeps** Em. Ithaca, Aug; **LI**: Long Pond, Suffolk Co, Je.
- C. limnologicus** Cros. and Bish. Crusoe L., May.
- C. micropalpis** Em. Barneveld; Ithaca, Nov (Bks); Ancram, Je; **LI** (Bks).
- C. minutus** Em. Wilmington Notch, Aug; Elizabethtown, Aug, Oct; High Falls, Aug; L. Pleasant, Ap; Mountain L., Ap; Raquette Falls, Aug; Gilman L., Ap.; Sylvan Beach, J1; Wolcott, May; Lake Bluff, Sep; Mendon, Oct; Newfane, Oct; Rock City, Sep; Richburg, Sep; Savona, Sep; Rye Pt., Sep; L. Keuka, Sep, Dec; Crosby, Oct; Guyanoga, Je; Eggleston's Glen, Sep; Penn Yan, May; Cinnamon L., J1; Interlaken, J1, Nov; Connecticut Hill, Oct; Ithaca, all

months; Enfield Glen, Je, Oct; McLean Bogs, Ap; Danby, Oct; Freeville, May, Oct; Deruyter L., Jl; Cascade, Nov; Meredith, May; Belden Hill Broome Co, May; Altamont, Ap; Vrooman's Nose, May; Silver Bay, Sep, *Leon*; Pearl Pt., Jl; Juanita I., Jl, Aug; L. Charlotte, Je; Accord, Mar; Sam's Pt., May; Oakland Val., May; Pine Island, May; Mt. Utsayantha, Oct; English Church, Rockland Co, May; Tuxedo, Oct, *Wlf*; **LI**: Flushing, Je; Cold Sp. Harb., Aug; Patchogue, Ap; Southold, Ap; Baiting Hollow, May; Great Pond, Riverhead, May.

**C. ornatulus** Cros. and Bish. Mt. Whiteface, Aug.

**C. paschalis** Cros. and Bish. Oakland Val., May.

**C. pygmaeus** Em. **LI**: Sea Cliff, *Bks*; Cold Sp. Harb., Ap, *Bryant*.

**C. similis** Bks. Clayville, Je; Olcott, Feb; Ithaca, Ap, Sep-Nov; Ringwood, Jl; Putnam, Sep; Poughkeepsie, *vanlngen*; **LI**: Sea Cliff, *Em*; Cold Sp. Harb., Jl-Aug, *Bryant*; Oyster Bay, *Chamb*; Riverhead (Sound Beach), Sep; Wading R. (Sound Beach), Je; Bridgehampton (Ocean Beach), Aug.

#### CERATINELLA Emerton

**C. brunnea** Em. Wilmington Notch, Aug; Mt. Whiteface, Aug; Mt. McIntyre, Jl; Wawbeek, Jl; Uphill Br., Opalescent R., Jl; Raquette Falls, Aug; Gilman L., Ap; L. Pleasant, Ap; Cranberry Cr., Aug; Barneveld; Howland I., Nov; Olcott, Mar; Penn Yan, May, Aug; Interlaken, Jl; Ithaca, Feb, Ap-May, Jl-Aug, Oct; Enfield Glen, Oct; Danby, Oct; Freeville, Oct; Valcour I., Aug; Juanita I., Jl-Aug; Silver Bay, Sep, *Leon*; Maratanza L., May; Slide Mt., Aug; Oakland Val., May; Pine I., Orange Co, May.

**C. placida** Bks. Ithaca, Feb, Sep (Bks).

**C. sphaerica** Em. **LI**: E. Hampton, May.

#### CERATINOPSIS Emerton

**C. formosa** Bks. (*alternata* Em.). Wilmington, Aug; Wilmington Notch, Aug; Mt. Whiteface, Aug; Elizabethtown, Aug; Peru, Je; Cranberry Cr., Aug-Sep; Woodworth's L., Aug-Sep, *Alex*; Lake Bluff, Sep; Lancaster; Rock City, Aug; Penn Yan, Aug; Montour Falls, Sep; Enfield Glen, Aug; Ithaca, Jl-Aug; Juanita I., Shelving Rock Mt., Jl; Pearl Pt., Aug; Queechey L., Aug, *Schoon*; Hunter, Aug; **LI**: Riverhead, Sep.

**C. auriculata** Em. Ithaca (Em); Freeville, May; Ringwood, May, *Dt*.

**C. interpres** Cambr. Wilmington Notch, Aug (Em); Peru, Je; Rock City, Je; Ithaca, Ap, Oct (Bks); Little Pond, Orange Co, May; Oakland Val., May; **LI**, Je (Bks).

**C. laticeps** Em. Olcott, Feb, *Dt*; Ithaca, May, Aug; **LI**: Montauk Pt., May.

**C. nigriceps** Em. Saratoga, Je; Clyde, Ap; McLean, Jl; Shelving Rock Mt., Jl; Tackawasick Pond, Je; Oakland Val., May; **LI**: Riverhead (Sound Beach), Sep; Cold Sp. Harb., Jl.

**C. nigripalpis** Em. Ithaca, Sep (Bks); **LI**: Riverhead, Aug; Baiting Hollow, May

**C. tarsalis** Em. **LI**: Cold Sp. Harb., Ap, *Bryant*; Oyster Bay, *Chamb*; Riverhead (Sound Beach), Sep.

**C. unicolor** Cros. Eggleston's Glen, Je; **LI**: Yaphank, Aug, *Shoe*; Baiting Hollow, May.

## CORNICULARIA Menge

- C. auranticeps* Em. Albany, Je; Little Pond, Orange Co, May.  
*C. clavicornis* Em. Mt. Whiteface, Aug (Em).  
*C. placida* Bks. Ithaca, Oct (Bks).

## DELORRHIPIS Simon

- D. unicornis* Bks. Ithaca, Mar, Nov; Crosby, Ap; Barrington, Oct.

## DICYMBIUM Menge

- D. pectinatum* Em. McLean Bogs, May.

## DIPLOCEPHALUS Bertkau

- D. abruptus* Em. McLean, J1; Slaterville, Aug; **LI**: Riverhead, Je.  
*D. arenarius* Em. Mt. McIntyre, J1; Clyde, Ap; Pine L., Orange Co, May.  
*D. castaneus* Em. Mt. Whiteface, Aug; L. Tear, Sep.  
*D. crenatus* Em. Woodworth's L., Aug, *Alex*; Ithaca, Aug-Sep; **LI**: Sea Cliff (Bks); Cold Sp. Harb., J1, *Bryant*.  
*D. cuneatus* Em. Sylvan Beach, J1; Crusoe L., May.  
*D. erigonoides* Em. Mt. McIntyre, J1; Olcott, Feb, *Dt*; Keuka Pk., Ap; Crosby, Nov; Hammondsport, J1; Ithaca, Mar, May, Oct-Dec; Etna, Nov; McLean, May, Sep; Sacandaga Pk., Je, *Alex*; Middletown, Ap; **SI**: Tottenville, Nov; **LI**: Sheepshead Bay, Sep; Sea Cliff, Je; Gardiners L., May; Montauk Pt., May.  
*D. exiguus* Bks. Ithaca, Jan (Bks).  
*D. latus* Em. Cranberry Cr., Aug; Ithaca (Bks); McLean, May; Poughkeepsie (Bks); **LI**, Mar (Bks).  
*D. littoralis* Em. **LI**: Cold Sp. Harb., Aug (Em); Riverhead, Sep.  
*D. minutus* Em. L. Pleasant, Ap.  
*D. pallidus* Em. Auger Pond, Aug; Jabe Pond, Sep, *Leon*; Karner, Mar.  
*D. simplex* Em. Wilmington Notch, Aug; Mt. Whiteface, Aug; Auger Pond, Nov; Silver Bay, Sep, *Leon*; Egleston's Glen, Sep; Connecticut Hill, Aug, Oct-Nov; McLean; Ringwood, May, *Dt*; Labrador Pond, Je.

## DRAPETISCA Menge

- D. alteranda* Chamb. Crown Pt., Sep, *Plm*; Wilmington Notch, Aug; L. Placid, Sep, *Plm*; Upper Jay, Sep, *Plm*; Chateaugay L., Sep, *Plm*; Raquette L., Sep; Big Moose, Aug, *Plm*; Onondaga Co (Britcher); Lake Bluff, Sep; Glen Haven, Sep, *Plm*; Clarksburg, Sep; Richburg, Sep; Rock City, Sep; Wells-ville, Sep; Hornell, Sep; Painted Post, Sep; Cinnamon L., Sep; Geneva, Sep; Ithaca, Sep; Bronx Pk., Sep, *Plm*; **LI**, Oct (Bks).

## ERIGONE Audouin

- E. atra* Blackw. Mt. McIntyre, J1; Wilmington, Aug; Geneva, J1; Cayuta L., J1; Taughannock Falls, J1-Aug, *Dt*; Ithaca, Mar, Je-Aug, Oct; Waterville, Aug; Tackawasick Pond, Je.



- E. autumnalis** Em. Barneveld, Aug; Ithaca, Jl-Aug; McLean, May; **LI**: Oyster Bay, *Chamb*; Cold Sp. Harb., Jl, *Bryant*; Sea Cliff (Em).  
**E. brevidentata** Em. Ithaca, Jl.  
**E. dentigera** Cambr. Chapel Pond, Je; Ithaca, Aug; McLean, May; Tackawasick Pond, Je; Kingston, Mar; **LI**: Sheepshead Bay, Je-Jl.  
**E. tridentata** Em. L. Keuka, Sep; Ithaca, Feb, Nov; Rensselaer, Nov, *Schoon*; **SI**: Clove Val., Nov; **LI**, Oct-Nov (Bks).  
**E. tristis** Bks. Ithaca, Ap, Oct (Bks).

**EXECHOPHYSIS** Simon

- E. nigriceps** Bks. Ithaca, May (Bks); **LI**: Sea Cliff, May (Bks).  
**E. plumalis** Cros. Sylvan Beach, Jl; Ithaca, May; Juanita I., Aug; Little Pond, Orange Co, May; **LI**: Riverhead, May.

**GONATIUM** Menge

- G. rubens** Blackw. Pinnacle Mt., Sep; Painted Post, Sep; Taughannock Falls, Oct; Ithaca, Aug, Nov; Freeville, Aug, Nov (Bks); Juanita I., Aug-Sep; Larchmont, Sep, *Wlf*.

**GONGYLIDIELLUM** Simon

- G. minutum** Bks. Ithaca, Mar (Bks); Varna (Bks).  
**G. pallidum** Em. Wells, Ap; Mountain L., Ap; Sylvan Beach, Jl; Wolcott, May; L. Keuka, Dec; Ithaca, Feb-Apr, Dec; Freeville, Oct; Belden Hill, Broome Co, May; Juanita I., Aug; Accord, Mar; Pomona, Ap; English Church, Rockland Co; Larchmont, Sep, *Wlf*; **LI**: Oct (Bks); Riverhead, Aug; Jamaica, Ap; Southold, Ap.

**GRAMMONOTA** Emerton

- G. gigas** Bks. L. Tear, Jl; Ithaca, May (Bks); Freeville, Ap-May; Cinnamon L., Jl.  
**G. inornata** Em. Barneveld, Aug; Ithaca, May, Aug; **LI**: May-Je (Bks); Sea Cliff, Je; Mattituck, Aug; Patchogue, Aug; Orient Pt., Aug.  
**G. ornata** Cambr. Ithaca, Mar (Bks); **SI**: Clove Valley, Nov; **LI**, Sep-Oct (Bks).  
**G. pallipes** Bks. **LI**, Oct (Bks).  
**G. pictilis** Cambr. Wilmington, Aug; Ithaca, Mar, Sep (Bks); Valcour I., Aug; Bumps Pond, Jl; Stamford, May, *Chrisp*; Little Pond, Orange Co, May.  
**G. trivittata** Bks. **LI**: Sea Cliff, Nov-Dec (Bks).

**HYPOMMA** Dahl

- H. bilobata** Bks. McLean Bogs, May.  
**H. trilobata** Bks. McLean Bogs, May; Ringwood, May; Ramapo Mts., May.

**HYPSELISTES** Simon

- H. florens** Cambr. Axton, *MacG*, *Houghton*; Wells, Jl, *Yg*; Black Br., Je; Cranberry L. (Barrows); Johnstown, Jl-Aug, *Alex*; Onondaga Co (Britcher); Clyde, Ap; Walworth, Je; Rock City, Aug; Bluff Pt., Sep; Ithaca, May, Sep,

Oct; McLean Bogs, May-J1; Albany, May; Karner, J1; Guilderland Center, May; Rensselaer, May; Central Nassau, J1; Tackawasick Pond, Je; Valley Falls, May, *Yg*; Queechy L., May, *Schoon*; Maratanza L., May; Little Pond, Orange Co, May; Pine I., Orange Co, May; **LI**: Millneck, Ap (Bks).

#### LEPHTHYPHANTES Menge

- L. minutus** Blackw. Keuka Pk., Oct; Ithaca, Nov (Bks); Poughkeepsie, *vanIngen*; **LI**, Aug (Bks).  
**L. nebulosus** Sund. Gloversville, Oct; Onondaga Co (Britcher); Clyde, Aug; Lake Bluff, Sep; Geneva, Nov; Bluff Pt., Sep; Ithaca, Mar, Nov (Bks); Albany, Aug, *Hartman*; Rensselaer, Nov; Oakland Val., May; **LI**, Sep, Nov (Bks).

#### LINYPHIA Latreille

- L. cayuga** Em. Ithaca, Mar, Dec (Em).  
**L. clathrata** Sund. Black Br., Je; Ithaca, Je, Nov (Bks); McLean, May, J1; Mt. Lebanon, May; Rensselaer, May-Je, *Schoon*; **SI**, Jan, young; **LI**: Oct-Dec (Bks); Sea Cliff (Em).  
**L. communis** Htz. Wilmington, Aug; Axton; Keene Val., Sep; Paul Smiths, J1; Speculator, J1; Newcomb, J1; Peru, Je; Pompey (Britcher); Saratoga, Je; Ithaca, J1; Freeville, May; McLean, May-Je; Pearl Pt., J1; Shelving Rock Mt., J1; Bumps Pond, J1; Central Nassau, J1; Little Pond, Orange Co, May.  
**L. conferta** Htz. **LI**, Oct (Bks).  
**L. insignis** Blackw. Wilmington Notch, Aug; Wilmington, Aug; Marble Mt., Aug; Cranberry L. (Barrows); Gloversville, Ap, *Alex*; Johnstown, Aug-Sep, *Alex*; Sacandaga Pk., Je, *Alex*; Woodworth's L., Aug-Sep; Burke, Oct; Lake Bluff, Sep; Rochester, Nov, *Chad*; Stow, Sep; Olcott, Sep; Ceres, Sep; Richburg, Sep; Wellsville, Sep; Painted Post, Sep; Ithaca, Sep-Nov; Owego, Dec; Indian Head Mt., L. George, Sep, *Leon*.  
**L. lineata** L. Gloversville, Mar, *Alex*; Fishers Landing, Sep, *Plm*; Onondaga Co (Britcher); Lake Bluff, Sep; Glen Haven, Sep, *Plm*; Rochester, Nov, *Chad*; Lewiston, Sep, *Plm*; Bluff Pt., Sep, *Heck*; Ithaca; McLean, Ap; Copeland Hill, Albany Co, May; Rensselaer, Nov; Mill Cr., May; Coxsackie, Mar; Poughkeepsie, *vanIngen*; **LI**, Oct-Nov (Bks).  
**L. maculata** Em. Ithaca, Mar-Apr, Oct; McLean, J1; Oakland Val., May.  
**L. mandibulata** Em. Wilmington, Aug; L. Tear, J1; Black Br., Je; Barneveld; Johnstown, May, *Alex*; Onondaga Co (Britcher); L. Keuka, May-Je; Ithaca, May; McLean, May; Albany (Em); Voorheesville, May; Rensselaer, May, Aug, *Schoon*; Grafton, Aug; Vrooman's Nose, May; Black Mt., Washington Co, Aug; Bumps Pond, J1; Cragmoor, May; Stamford, May, *Chrisp*; **LI** (Bks).  
**L. marginata** C. Koch. Wilmington, Aug; Axton, *MacG*, *Houghton*; Paul Smiths, J1; Chapel Pond, Je; Speculator, J1, *Yg*; Old Forge, J1, *Plm*; Cranberry L. (Barrows); Raquette L., Je; Wells, J1, *Yg*; Johnstown, J1, *Alex*; Gloversville, Aug, *Alex*; Woodworth's L., May, *Alex*; Onondaga Co (Britcher); Ithaca; Oak Ridge, Canandaigua L., Aug; Albany; Thacher Pk., Je-J1; Thompson L., J1; Dormansville, Je; Grafton, Aug; Rensselaer, Ap, *Schoon*; Tackawasick Pond, Rensselaer Co, Je; Riders Mills, May, *Chrisp*; Queechy L., May, *Schoon*; Valcour I., Aug; Pearl Pt., Juanita I., J1; Sleeping Beauty Mt., J1; Bumps Pond, J1; Tongue Mt., Warren Co, Sep, *Leon*; Poughkeepsie,

*vanIngen*; Mt. Marion, Ulster Co, Oct, *Chad*; Vrooman's Nose, May; Stamford, May, **Jl**; Little Pond, Orange Co, May; Highland, *Wlf*; Paradise, May; Oakland Val., May.

- L. nearctica** Bks. Mt. Whiteface, Aug; Wilmington, Aug; Marble Mt., Aug; Uphill Br., Opalescent R., **Jl**; Mt. Marcy, Sep; L. Tear, Sep; Avalanche L., **Jl**.
- L. phrygiana** C. Koch. Wilmington, Aug; North Cr., Je, *Plm*; Paul Smiths, **Jl**, *Plm*; Gloversville, Mar–Ap, Aug, *Alex*; Onondaga Co (Britcher); Clyde, Ap; Cayuga, Oct, *Chad*; Ithaca (Bks); McLean, May; Schenectady, Dec, *Dt*; Albany, Je; Kenwood, May, *Plm*; Thacher Pk., Je; E. Schodack, Je, *Chad*; Cossayuna L., May, *Schoon*; Valley Falls, May, *Yg*; Riders Mills, May, *Chrisp*; Waterford, Jan, *Chad*; Valcour I., Aug; Bumps Pond, **Jl**; Catskill, Sep; Stamford, May, *Chrisp*; Cragmoor, May; Bronx Pk., Sep, *Plm*; **LI**, Ap, Oct (Bks).
- L. variabilis** Bks. Wilmington, Aug; Newcomb, **Jl**; Ithaca, Feb, Oct (Bks); Rensselaer, Nov, *Schoon*; Stamford, May, *Chrisp*.

LOPHOMMA Menge

- L. elongatum** Em. Raquette Falls, Aug; Ringwood, May, *Dt*; McLean Bogs, May; Pinekill, May.
- L. longitarsum** Em. Wilmington Notch, Aug; **LI**: Montauk Pt., May.

MASO Simon

- M. frontata** Bks. Wilmington, Aug; Wilmington Notch, Aug (Em); Ceres, Sep; Rock City, Sep; Ithaca, Mar (Bks); McLean, **Jl**; Labrador Pond, Je; L. Charlotte, Je; **LI**: Long Pond, Suffolk Co, Je; Baiting Hollow, May.

MICRONETA Menge

- M. clavata** Em. Wilmington Notch, Aug.
- M. complicata** Bks. Michigan Hollow Swamp, Ap (Bks).
- M. cornupalpis** Cambr. Wilmington Notch, Aug; Crosby, Dec; Ithaca, Mar–Ap, Nov (Bks); Shurger's Gorge, Nov; McLean, May; Juanita I., **Jl**; Oakland Val., May; Pomona, Ap; Larchmont, Sep, *Wlf*; **SI**: Clove Val., Nov; **LI**: Flushing, Nov; Jamaica, Ap.
- M. denticulata** Em. **LI**: Baiting Hollow, Ap.
- M. fabra** Key. (*bowditchiae* Bish., *wana* Chamb.). Ithaca, **Jl** (Chamb); **LI**: Sheepshead Bay, Ap; Oyster Bay (Chamb).
- M. latidens** Em. Italy Hill, Oct; Accord, Mar.
- M. longibulbus** Em. McLean Bogs, May; Little Pond, Orange Co, May; **LI** (Bks).
- M. minutissima** Bks. Fall Cr., Ithaca, Oct.
- M. multesima** Cambr. Auger Pond, Nov; Lake Bluff, Sep; Stow, Sep; Olcott, Sep; Honeoye Falls, Nov; Lockport, Nov; Connecticut Hill, Nov; Savona, Sep; Rye Pt., Sep; Italy Hill, Yates Co, Oct; Ithaca, Feb (Bks); Owego, Dec; Altamont, Ap.
- M. persoluta** Cambr. Wilmington Notch, Aug; Auger Pond, Nov; Old Forge, Oct; Burke, Oct; Crosby, Dec; L. Keuka, Oct; Eggleston's Glen, Oct; Enfield Glen, Oct; McLean, May–**Jl**; Meredith, May; Slide Mt., Je; Cragmoor, May; Maratanza L., May; Sam's Pt., May; Silver Bay, Sep, *Leon*; Indian Head Mt., L. George, Sep, *Leon*.
- M. quinquedentata** Em. Malone, Oct; Burke, Oct; Howland I., Nov; Eggleston's Glen, Sep; Enfield Glen, Oct; Ithaca, Nov; McLean Bogs, Sep; Saratoga Sps., Ap; Rensselaer, Sep, Nov; **LI**: Baiting Hollow, Ap.

- M. serrata* Em. Crosby, Oct; Keuka Pk., Nov.  
*M. viaria* Blackw. Wilmington Notch, Jl-Aug; Howland I., Nov; Rock City, Sep; Italy Hill, Oct; Connecticut Hill, Oct; Ringwood, Oct; Enfield Glen, Oct; Ithaca, Oct-Nov; Voorheesville, May; Juanita I., Pearl Pt., Jl; Meredith, May; Slide Mt., Je; Delhi, May; Pomona, Ap; Cragmoor, May; Tuxedo, Oct, *Wlf*; Larchmont, Sep, *Wlf*; **SI**: Clove Val., Nov; **LI**: Sea Cliff (Em).

## MINYRIOLUS Simon

- M. scopuliferus* Em. Ithaca, Nov-Dec; Wappingers Falls, May.

## OEDOTHORAX Bertkau

- O. bidentatus* Em. Mt. Whiteface, Aug; Mt. McIntyre, Jl; Uphill Br., Opalescent R., Jl; Little Pond, Orange Co, May.  
*O. bostoniensis* Em. Woodwardia Swamp, Sep-Oct.  
*O. brunneus* Em. Ithaca, Aug (Bks).  
*O. concavus* Em. **LI**: Black Swamp, Oct (Bks).  
*O. corticarius* Em. Woodworth's L., Jl, *Alex*.  
*O. debilis* Bks. Ithaca, Mar, Dec (Bks).  
*O. decemoculatus* Em. Newcomb, May; Ithaca, May.  
*O. flaveolus* Bks. Otto, Oct; Geneva, Nov; Ithaca, Feb, Oct (Bks); **LI**, Oct.  
*O. limatus* Cros. Ithaca, Nov; McLean, May, Jl.  
*O. microtarsus* Em. Wilmington, Aug; Mt. Whiteface, Aug.  
*O. montanus* Em. High Falls, Aug; Mt. Whiteface, Aug; Mt. McIntyre, Jl; L. Tear, Sep; Uphill Br., Opalescent R., Jl.  
*O. montiferus* Em. Shurger's Gorge, Nov; Ithaca, Mar-Apr, Dec.  
*O. ornatus* Em. Ithaca (Em); Crusoe L., May; Montauk Pt., May.  
*O. oxypaederotipus* Cros. Old Forge, Oct; Clarksburg, Sep; Ceres, Sep; Letchworth Pk., Jl; Taughannock Falls, Jl; Guyanoga, Je; Penn Yan, May; L. Keuka, Ap; Connecticut Hill, Aug; Ithaca, Feb, May-Jl; Danby, Oct; Ringwood, May, *Dt*; Freeville, May, Jl, Oct; McLean, May; Labrador Pond, Je; Deruyter L., Jl; Trenton Falls, Je; Altamont, Ap; Apalachin, May; Belden Hill, Broome Co, May; Meredith, May; Delaware L., May; Slide Mt., Je; Paradise, May; Mt. Utsayantha, Oct; Oakland Val., May.  
*O. plumosus* Em. Mt. McIntyre, Jl; Ithaca, Mar, Jl, Oct-Nov; Kingston, Mar.  
*O. rusticus* Bks. Ithaca, Dec (Bks), Ap, *Seeley*, *Flet*.  
*O. spiniferus* Cambr. Ithaca, Oct (Bks).  
*O. tarsalis* Em. **LI**: Great Pond, Riverhead, May.  
*O. terrestris* Em. **LI**: Black Swamp, Oct (Bks).  
*O. truncatus* Em. Mt. Whiteface, Aug; Auger Pond, Nov.  
*O. undulatus* Em. Ithaca, May.  
*O. unidentatus* Em. Mt. Whiteface, Aug.

## PARERIGONE Crosby and Bishop

- P. contorta* Em. Ithaca, May; McLean Bogs, May-Je; **LI**: Jamaica, Ap; Montauk Pt., May.  
*P. entomologica* Em. Mt. Whiteface, Aug (Em); McLean Bogs, May; Mt. Whiteface, Aug.

- P. index** Em. Cinnamon L., J1; Freeville, May; McLean Bogs, Ap-May; Ringwood, May, *Dt*; Suffern, Ramapo Mts., May; **LI**: Flushing, Je.
- P. probata** Cambr. Wilmington, Aug; Sylvan Beach, J1; Wolcott, May; Lake Bluff, Sep; Olcott, Sep; Richburg, Sep; Rock City, Sep; Italy Hill, Oct; Guyanoga, Je; L. Keuka, Je; Rye Pt., Sep; Barrington, Oct; Interlaken, J1; Connecticut Hill, Oct; Taughannock Falls, J1; Enfield Glen, Je, Aug; Ithaca, Feb, May, J1-Aug, Oct; Ringwood, May, *Dt*; Freeville, J1; McLean Bogs, May, J1; Deruyter L., J1; Labrador Pond, Je; Jenksville, Oct; Delaware L., May; Silver Bay, Sep, *Leon*; Pearl Pt., J1; Altamont, Ap; Mountainville, May; Pine Hill, May; Tuxedo, Oct, *Wlf*; Larchmont, Sep, *Wlf*; Pomona, Ap; **SI**: Clove Val., Nov; **LI**: Southold, Ap; Great Pond, Riverhead, May; Baiting Hollow, May; Riverhead, Ap-Aug; Long Pond, Suffolk Co, Je; Montauk Pt., May.
- P. rectangulata** Em. Mt. Whiteface, Aug; McLean Bogs, May; Ringwood, Oct; Maratanza L., May; Little Pond, Orange Co., May; **LI**: Great Pond, Riverhead, May.
- P. simplex** Em. Little Pond, Orange Co, May.
- P. trilobata** Em. Trenton Falls, Je; Olcott, Sep; Lockport, Nov; Cinnamon L., J1; Ithaca, Mar-May, Oct-Nov; Freeville, Oct; Ringwood, May, *Dt*; Albany, J1; Voorheesville, Je; Little Pond, Orange Co, May; **SI**: Clove Val., Nov; **LI**: Jamaica, Ap, *Wlf*.

PELECOPSIS Simon

(*Lophocarenum* Menge)

- P. excavatum** Em. Summit of Mt. Whiteface, Aug.
- P. moestum** Bks. Ithaca, Nov (Bks); Poughkeepsie (Bks); Pine I., Orange Co, May.
- P. rugosum** Em. Juanita I., Aug; **LI**: Baiting Hollow, May.

POCADICNEMIS Simon

- P. pumila** Blackw. (equals *longituba* Em.). Sylvan Beach, J1; Howard, J1; Penn Yan, May; Cinnamon L., Je-J1; Ithaca, May, J1-Aug; Freeville, Aug; McLean, May-J1; Vrooman's Nose, May; L. Charlotte, Je; Schodack Landing, Je; Riders Mills, May; Ancram, Je; Little Pond, Orange Co, May; **LI**: Wading R. (Sound Beach), Je; Baiting Hollow, May; Long Pond, Suffolk Co, Je.

PROSOPOTHECA Simon

- P. brevicornis** Em. **LI**: Riverhead, Ap.
- P. communis** Em. Mt. Whiteface, Aug; West Barre, Sep; Ithaca, Feb, Ap-May; McLean Bogs, May; **LI** (Bks).
- P. digitata** Em. (*Tmeticus*). **LI**: Cold Sp. Harb., Je (Em).
- P. directa** Cambr. Stow, Sep; Ithaca, Sep-Oct; Freeville, May; McLean, Ap-May; Italy Hill, Oct; Eggleston's Glen, Sep; Karner, Mar; Poughkeepsie, *vanIngen*; Meredith, May.
- P. indirecta** Cambr. Ithaca, Ap (Bks); **LI** (Bks).
- P. minuta** Em. Lake Bluff, Sep; **LI**: Riverhead, Ap; Baiting Hollow, Ap.
- P. pallida** Em. Ithaca, Oct (Bks); Auger Pond, Nov.



*P. spiralis* Em. Ithaca, Aug, Nov; McLean, May-Je; Freeville, Aug (Bks);  
**LI:** Jamaica, Sep.

*P. tibialis* Em. Little Pond, Orange Co, May.

#### TAPINOCYBA Simon

*T. distincta* Bks. Varna, Mar (Bks); Freeville, May (Bks); McLean Bogs, Jl.

#### TAPINOPA Westring

*T. bilineata* Bks. Ithaca (Comst); Freeville, Aug; **LI:** Sea Cliff (Bks); Long Pond, Suffolk Co, Je.

#### TMETICUS Menge

*T. cultigerus* L. Koch (*armatus* Bks.). Mt. Whiteface, Aug (Em); Hague, Sep, *Leon*.

#### TORTEMBOLUS Crosby

*T. alpinus* Bks. Voorheesville, Nov, *Leon*.

#### TRACHELOCAMPTUS Simon

*T. rostratus* Em. Olcott, Sep; Ithaca, Mar; **LI:** Sea Cliff, Dec (Bks); Southold, Ap; Riverhead, Ap-May; Cold Sp. Harb., Ap, *Bryant*; Baiting Hollow, May.

#### UTOPIELLUM Strand

*U. curvitaris* Em. Mt. Whiteface, Aug (Em).

#### WABANA Chamberlin

*W. drassoides* Em. Mt. Whiteface, Aug.

### FAMILY ARGIOPIDAE

#### ACACESIA Simon

*A. foliata* Htz. Sacandaga Pk., Jl, *Alex*; **LI:** Sea Cliff, Sep (Bks).

#### ARANEUS Clerk

*A. angulatus* Cl. Mt. Whiteface, Aug; Wilmington, Aug; Wilmington Notch, Aug; Mt. Marcy, Sep; Uphill Br., Opalescent R., Jl; Saranac L. (McCook); Keene Val., Sep; Gloversville, Sep; W. Caroga L., Aug, *Alex*; Johnstown, Aug, *Alex*; Spring Brook, Sep; Slingerlands, Oct, *Goldring*.

*A. arenatus* Walck. **LI:** Sea Cliff, Sep (Bks).

*A. cavaticus* Key. Keene Val., Aug; Ausable Chasm (Em); Wells, Jl, *Yg*; Ithaca, Sep, Nov (Bks); Thacher Pk., May-Je; Kattskill Bay, Aug; Black Mt., Washington Co, Sep, *Leon*; Shelving Rock Mt., Jl; Shelving Rock Br., Sep, *Leon*.

*A. cornutus* Cl. Axton, *MacG*, *Houghton*; Saranac L., Aug; Wilmington, Aug; Deer I., Thousand Isls., Aug; Fishers Landing, Sep, *Plm*; Johnstown, May, *Alex*; Onondaga Co (Britcher); Lake Bluff, Sep; Rochester, Nov, *Chad*; Irving, Sep, *Chad*; Dunkirk; Barcelona, Sep; Crosby, Ap; Taughannock Falls, Aug; Enfield Glen, Oct; Ithaca, Aug, Nov (Bks); Glenwood, Aug,

- Leon*; Vrooman's Nose, May; Plattsburg, Sep; Valcour I., Aug; Elizabeth I., Je; Juanita I., Jl; Albany, Jan, Je-Jl, Sep; Rensselaer, May, Sep; Thompson L., Sep; Voorheesville, Je; Cossayuna L., May, *Schoon*; Stockport, Sep; Poughkeepsie; L. Katrine, Oct; **LI**: Sea Cliff, May-Je (Bks).
- A. corticarius** Em. Wilmington Notch, Aug; Saranac L., Aug; Chateaugay L., Sep, *Plm*; Raquette L., Sep, *Plm*; Johnstown, Aug, *Alex*; Woodworth's L., Aug, *Alex*; Onondaga Co (Britcher); Cinnamon L., Sep; Ithaca (McCook); Dryden, Sep (Bks).
- A. cucurbitinus** Cl. Mt. McIntyre, Jl; Axton, *MacG*, *Houghton*; Wilmington, Aug; L. Tear, Jl; Wells, May, *Yg*; Speculator, Aug, *Yg*; Old Forge, Je-Jl; Gloversville, May-Je, Aug, Oct, *Alex*; E. Caroga L., Aug; Johnstown, Jl, Sep, *Alex*; Sacandaga Pk., Je-Jl, *Alex*; Baldwinsville (Bks); Rochester; Ithaca, Aug-Oct (Bks); Connecticut Hill; McLean, May; Waterford, Nov; Kenwood, Jl, *Chad*; Albany, Sep-Nov; Alps, *Chrisp*; Queechy L., May, *Schoon*; Vrooman's Nose, May; Catskills, Jl, *Chad*; Stamford, May-Je, *Chrisp*; **SI**: New Brighton, Nov; **LI**: Sea Cliff, Oct (Bks).
- A. ectypus** Walck. **LI**: Sea Cliff (Bks).
- A. emertoni** Bks. **LI**: Sea Cliff (Bks).
- A. juniperi** Em. Ithaca (Bks); **LI**: Sea Cliff (Bks).
- A. marmoreus** Cl. Wilmington, Aug; Saranac, Aug; Saranac L., Sep, *Plm*; Plattsburg, Sep; Chateaugay L., Sep; Cranberry L. (Barrows); Fishers Landing, Sep, *Plm*; Mountain L., Je, *Alex*; Gloversville, Aug-Sep, *Alex*; E. Caroga L., Aug; Deer I., Thousand Isls., Aug; Watertown, Sep; Onondaga Co (Britcher); Clyde, Aug; Lake Bluff, Sep; Hemlock L., Aug; Rochester; Glen Haven, Sep-Oct; Barcelona, Sep; Richburg, Sep; West Barre, Sep; Dunkirk; Irving, Sep; Oak Ridge, Canandaigua L., Aug; Painted Post, Sep; Watkins Glen; Rock Stream, Oct; Cinnamon L., Sep; Enfield Glen, Oct; Ithaca (Bks); Ringwood, Oct; McLean, Aug; Crown Pt., Sep, *Plm*; Sleeping Beauty Mt., Jl; Waterford, Sep; Albany, Je, Aug-Oct; Kenwood, Oct, *Plm*; Altamont, Oct; Rensselaer, Jl, Sep, Oct; Waldorf, Sep; Queechy L., Aug, *Schoon*; Catskill, Aug; Poughkeepsie, *vanIngen*; West Park, Aug, *Wlf*; Fishkill, Sep; Van Cort. Pk., Sep, *Plm*; Bronx Pk., Sep, *Plm*; **LI**: Sea Cliff, Jl (Bks).
- A. miniatus** Walck. **LI**: Sea Cliff, Jl, Dec (Bks).
- A. nordmanni** Thorell. Wilmington Notch, Aug; L. Placid, Sep, *Plm*; Woodworth's L., Aug, *Alex*; Caroga L., Aug, *Alex*; Onondaga Co (Britcher); Glenwood, Aug, *Leon*; Ithaca, Sep, Nov; Thacher Pk., Je; Rensselaer, Oct, *Schoon*; Tackawasick Pond, Je; Riders Mills, May; Catskill Mts., Aug, *Schoon*; Sam's Pt., May; Oakland Val., May.
- A. patagiatus** Cl. Plattsburg, Sep; Adirondack Mts. (Em&McCook); Gloversville, Aug, *Alex*; Wells, Jl, *Yg*; Lake Bluff, Aug-Sep; Rochester; Hemlock L., Aug; Glen Haven, Sep, *Plm*; Irving, Sep; Charlotte, Sep; Naples, Jl; Ithaca, Nov (Bks); Cascade, Nov; Cazenovia, Sep; Valcour I., Aug; Juanita I., Jl-Aug; Elizabeth I., Jl; Waterford, Ap; Albany, Aug; Kenwood, Ap, *Chad*; Nassau, Je, *Schoon*; Cossayuna L., May, *Schoon*; Kinderhook L., Aug, *Schoon*; Fishkill, Sep.
- A. pegnia** Walck. Ithaca (Bks); Catskill, Sep, *Chad*; Poughkeepsie, *vanIngen*; **LI**, Sep (Bks).
- A. sericatus** Cl. Plattsburg, Sep; Alexandria Bay (McCook); Sacandaga Pk., Jl, *Alex*; Gloversville, Aug, *Alex*; Johnstown, May, *Alex*; Baldwinsville (Bks); Clyde, Ap, Aug; Lake Bluff, Aug-Sep; Cayuga, Oct, *Chad*; Rochester, Je,

- Chad*; Dunkirk; Naples, JI, Aug; Ithaca, Aug, Nov; Elizabeth I., May, Aug; Albany, JI, Nov; Kinderhook L., Aug, *Schoon*; Cornwall, May; **LI**: Bay Shore, Sep, *Plm*.
- A. solitarius** Em. Chateaugay L. (Em); Saranac L. (McCook); Mt. Marcy, Sep; Munsonville, Oct, *Alex*; Onondaga Co (Britcher); Rochester, Sep-Oct; Ithaca, Oct (Bks).
- A. stellatus** Walck. Axton, *MacG*, *Houghton*; Wells, JI, *Yg*; Woodworth's L., JI, *Alex*; Gloversville, Ap-May, *Alex*; Johnstown, May; Barneveld, Aug; Onondaga Co (Britcher); Connecticut Hill, Oct; McLean, JI; Dryden, Aug (Bks); Ringwood, Oct; Hudson Falls, Je; Poughkeepsie, *vanIngen*; **LI**: Sea Cliff (Bks).
- A. thaddeus** Htz. Wilmington, Aug; Cranberry L. (Barrows); Gloversville, Aug, *Alex*; E. Caroga L., Aug, *Alex*; Onondaga Co (Britcher); Rochester, *Frank*; Ithaca, Aug-Oct; Kenwood, Sep-Oct; Waldorf, Sep; Alps, Oct; **LI**: Sea Cliff, JI (Bks).
- A. trifolium** Htz. Plattsburg, Sep; Wilmington, Aug; Chateaugay L., Sep, *Plm*; Saranac L., Sep, *Plm*; Cranberry L. (Barrows); Cranberry Cr., Aug; Gloversville, Ap, Aug-Sep, *Alex*; Johnstown, Sep, *Alex*; E. Onondaga, Sep, *Plm*; Lake Bluff, Sep; Rochester, Sep-Oct; Clarksburg, Sep; Richburg, Sep; Hornell, Sep; West Barre, Sep; Hemlock L., Aug; Irving, Sep, *Chad*; Dunkirk; Ithaca, Sep-Oct; Valcour I., Aug; Albany, Sep-Oct; Waldorf, Sep, *Yg*; Schodack, Sep; Castleton, Sep; Clinton Hgts., Aug-Sep; Queechy L., Aug, *Schoon*; Kinderhook L., Sep; Poughkeepsie, *vanIngen*; NYC (Bks); **LI**: Sea Cliff, Sep-Oct (Bks).
- A. trifolium** var. *candicans* McCook. Wilmington Notch, Aug; Ithaca (Comstock); Taughannock Falls, Aug; Juanita I., Sep, *Leon*.

## ARGIOPE Audouin

- A. aurantia** Lucas. Saranac L., Aug; Gloversville, Aug, *Alex*; Onondaga Co (Britcher); Rochester, Sep-Oct; Irving, Sep; Naples, Aug; Trumansburg, Aug; Taughannock Falls, Aug, *Dt*; Valcour I., Aug; Ithaca, Aug-Sep; Albany, Aug-Sep; Menands, Aug; Rensselaer, Sep; Kinderhook, Sep; Kinderhook L., Aug, *Schoon*; Poughkeepsie, *vanIngen*; Beacon, Aug; Brooklyn, *Pike*; NYC, Sep-Oct; **LI**: Sea Cliff (Bks).
- A. trifasciata** Forskal. Wilmington, Aug; Saranac L., Aug; Crater Club, Aug; Watertown, Sep, *Plm*; Johnstown, Aug, *Alex*; Onondaga Co (Britcher); Clyde, Aug; Lake Bluff, JI, Sep; Rochester, Sep-Oct; Irving, Sep, *Chad*; Ithaca, Sep-Oct; Albany, Sep-Oct; Leeds, Aug, *Chad*; Rensselaer, Sep-Oct; Schodack, Sep; Kinderhook, Sep; Kinderhook L., Aug, *Schoon*; Valcour I., Aug; Poughkeepsie, *vanIngen*; Highland, Aug; **LI**, Aug-Sep (Bks).

## CYCLOSA Menge

- C. conica** Pallas. L. Placid, Sep; Onondaga Co (Britcher); Rochester; Watkins Glen, Oct; Enfield Glen, Oct; Ithaca; Vrooman's Nose, May; Stamford, May; Gloversville, Oct; Albany, Sep; Meadowdale, May; Thacher Pk., Je; Queechy L., May, *Schoon*; E. Schodack, Sep, *Yg*; Waldorf, Sep, *Yg*; Riders Mills, May, *Chrisp*; Copake Falls, Ap; Valcour I., Aug; Oakland Val., May; **LI**: Baiting Hollow, May.
- C. turbinata** Walck. Mountain L., Je, *Alex*; Gloversville, Oct, *Alex*; Tully (Britcher); Ithaca (Bks); Albany (Htz); **LI**: Sea Cliff (Bks).

## EUCTA Simon

Compiled by R. M. SEELEY

- E. lacerta** Walck. Wilmington, Aug; Saranac L., Aug (Em); Tully (Britcher); Long Branch, Sep, *Britcher*; Sodus Bay, Sep; Lake Bluff, Sep; Rochester, *Franck*; Pt. Breeze, Je; Cinnamon L., Sep; Ithaca, Aug.
- E. vermiformis** Em. Clyde, Aug; Lake Bluff, Aug; Cinnamon L., J1; Ithaca, Bks; Labrador Pond, Je; Voorheesville, Je; **LI**, J1 (Bks).

## EUGNATHA Audouin

Compiled by R. M. SEELEY

- E. pallescens** Cambr. Cinnamon L., Sep; Ithaca, May; Labrador Pond, Je; Water-vliet, *Leon*; Voorheesville, Je; Rensselaer, Sep, *Schoon*; Burden L., J1, *Schoon*.
- E. straminea** Em. Trenton Falls, Je; Onondaga Co (Britcher); Painted Post, Sep; Interlaken, J1; Enfield Glen, May; Ithaca, J1, Oct; McLean, May; Labrador Pond, May-Je, *Tarris*; Apulia, Oct, *Britcher*; Tully, Oct, *Britcher*; Pompey, Sep, *Britcher*; Jamesville, Oct, *Britcher*; Onondaga Val., *Britcher*; Baldwinsville, Sep, *Britcher*; Thompson L., May; Normansville, J1; Voorheesville, Je; Rensselaer, Sep, *Schoon*; Tackawasick Pond, Je.

## EUSTALA Simon

- E. anastera** Walck. Axton, *MacG*, *Houghton*; Saranac L., Aug; Gloversville, May, *Alex*; Onondaga Co (Britcher); Rochester, *Franck*; Irving, Sep, *Chad*; Ithaca, Sep-Oct; Poughkeepsie, *vanIngen*; **LI**: Sea Cliff, Je (Bks).

## GLENOGNATHA Simon

- G. foxi** McCook. Ithaca, J1.

## GLYPTOCRANIUM Simon

- G. bisaccatum** Em. Eastwood (Britcher); Larchmont, Feb; **LI**, Sep (Bks).
- G. cornigerum** Htz. Ithaca, Nov, *Ilg*.

## LARINIA Simon

- L. borealis** Bks. **LI**: Sea Cliff, Je (Bks).

## LEUCAUGE White

- L. venusta** Walck. Gloversville, Ap, Aug, *Alex*; Johnstown, Sep, *Alex*; Onondaga Co (Britcher); Otto, Sep; Rochester, *Franck*; Taughannock Falls, Je; Ithaca, Je, Aug-Sep; Labrador Pond, Je; Deruyter L., J1; Crystal L., J1; Poughkeepsie, *vanIngen*; **LI**: Cold Sp. Harb., *And*.

## MANGORA Cambridge

- M. gibberosa** Htz. Wilmington Notch, Aug; Wilmington, Aug; Crater Club, Aug; Wells, J1, *Yg*; Gloversville, Aug-Sep, *Alex*; Onondaga Co (Britcher); Barcelona, Sep; Ithaca, Aug-Sep; Albany, J1; Central Nassau, J1; Valcour L., Aug; Poughkeepsie, *vanIngen*; NYC (Bks); **LI** (Bks).

- M. maculata** Key. Albany, J1; Poughkeepsie, *vanIngen*; **LI** (Bks).  
**M. placida** Htz. Cranberry L. (Barrows); Onondaga Co (Britcher); Ithaca, Je, Sep; McLean, May-Je; Enfield Glen, Oct; Queechy L., May, *Schoon*; Riders Mills, May, *Chrisp*; Little Pond, Orange Co, May; Oakland Val., May; **LI** (Bks).

## META C. Koch

- M. menardi** Latreille. Avalanche L., J1; Sacandaga Pk., Je, *Alex*; Ausable Chasm, Sep, *Leon*; Onondaga Co (Britcher); Ithaca, Aug-Oct; Elmira, J1; Binghanton; Thacher Pk., May-Je; E. Berne, Je; Valcour I., Aug; Sam's Pt., May.

## METEPEIRA F. Cambridge

- M. labyrinthea** Htz. Wilmington, Aug; Saranac L., Aug; Baldwinsville (Britcher); Glen Haven, Sep, *Plm*; Niagara Falls, Sep, *Knigt*; Ithaca, Sep-Oct; Elmira, J1; Willow Pt., Canandaigua L., Aug; Poughkeepsie, *vanIngen*; **LI**: Aug-Sep (Bks); Sea Cliff, Je (Bks).

## MICRATHENA Sundevall

- M. gracilis** Walck. Ithaca (Bks); Poughkeepsie, *vanIngen*; Mt. Vernon, NYC (Marx); **LI**: Wading R., Sep, *Burns*; Riverhead (Sound Beach), Sep.  
**M. reduviana** Walck. **LI**: Riverhead (Sound Beach), Sep.  
**M. sagittata** Walck. Middletown, J1, *Meyer*; Mt. Vernon, Sep, *Felt*; **LI**: Riverhead (Sound Beach), Sep.

## NEOSCONA Simon

- N. arabesca** Walck. Axton, *MacG*, *Houghton*; Wilmington, Aug; Mt. Marcy, Sep; Cranberry L. (Barrows); Wells, J1, *Yg*; Gloversville, Ap, Aug, *Alex*; Woodworth's L., J1, *Alex*; Onondaga Co (Britcher); Rochester; Hemlock L., Aug; Cinnamon L., Sep; Ithaca, Sep-Oct; Ringwood, Oct; McLean, J1-Aug; Taughannock Falls, Aug, *Dt*; Oak Ridge, Canandaigua L., Aug; Albany, Aug-Sep; Grafton, Aug, *Chad*; Valcour I., Aug; Juanita I., J1; Pearl Pt., J1; Elizabeth I., J1; Bumps Pond, J1; Tongue Mt., Warren Co, Sep, *Leon*; Oakland Val., May; Stamford, Je; Poughkeepsie (Bks); Highland, Aug, *Wlf*; NYC, *Plm*; **LI**: Sea Cliff, Je (Bks).  
**N. benjamina** Walck. Wilton, J1; Gloversville, Aug, *Alex*; Onondaga Co (Britcher); Ithaca, Sep-Oct (Bks); Albany, Sep; Rensselaer, Sep; Grafton, Aug; Valcour I., Aug; Catskill, Aug, *Chad*; Highland, Aug, *Wlf*; **LI**: Sea Cliff, Oct (Bks).  
**N. pratensis** Htz. Ithaca (Bks); Albany, Sep.

## NESTICUS Thorell

- N. pallidus** Em. Dormansville, Je.

## PACHYGNATHA Sundevall

- P. autumnalis** Key. Syracuse (Britcher); Ithaca, May, Oct, Dec; **LI** (Bks).  
**P. brevis** Key. Green L., Fulton Co, Jan, *Dt*; Syracuse (Britcher); Tully (Britcher); Ithaca, Mar, Nov-Dec; McLean, May; Queechy L., Aug, *Schoon*; Poughkeepsie, *vanInaen*; Little Pond, Orange Co, May; **LI**, Oct (Bks).



**P. mccooki** Bks. Ithaca (Bks).

**P. tristriata** C. Koch. Cranberry Cr., Aug; Gloversville, Mar-May, Sep, Oct; **LI**, *Key*.

#### SINGA C. Koch

**S. pratensis** Em. Pompey Hill, Onondaga Co (Britcher); Riders Mills, May.

**S. maculata** Em. Tully (Britcher); Jamesville (Britcher); Ithaca (Bks); Poughkeepsie, *vanIngen*; **LI** (Bks).

**S. variabilis** Em. Axton, *MacG*, *Houghton*; Wilmington, Aug; Saranac L., Aug; Newcomb, **JI**; Tully (Britcher); Ithaca (Bks); Ringwood, Oct; **LI**, Oct (Bks).

#### TETRAGNATHA Latreille

Compiled by R. M. SEELEY

**T. elongata** Walck. Cranberry L. (Barrows); Beaver R., **JI**, *Yg*; Old Forge, **JI**; Wells, **JI**, *Yg*; Trenton Falls, **Je**; Pompey (Britcher); Lake Bluff, Aug-Sep; Clyde, **JI**-Aug; Rochester, *Franck*; Warsaw, Aug; Oak Ridge, Canandaigua L., Aug; Cinnamon L., **JI**; Ithaca, **JI**-Oct; McLean, **Je**, *Palmer*; Valcour I., Aug; Elizabeth I., **JI**; Juanita I., **JI**; Kattskill Bay, Aug; Pearl Pt., **JI**, Aug-Sep; L. George, **JI**-Aug; Voorheesville, **JI**-Aug, *Leon*; Rensselaer, May, *Schoon*; Burden L., **JI**, *Schoon*; Tackawasick Pond, **Je**; Kinderhook L., **Je**, Sep, *Schoon*; Cossayuna L., May, *Schoon*; Poughkeepsie, *vanIngen*; Saugerties, **JI**-Aug; W. Shokan, **JI**; Ashokan, Aug, *Treadwell*; NYC (Bks); **LI**: Cold Sp. Harb., **Je**, *Dt*; Rockaway Beach, Sep, *Pike*; Hoversville, **Je**.

**T. extensa** L. Paul Smiths, **JI**, *Babiy*; Mt. McIntyre, **Je**; Axton, *MacG*, *Houghton*; Adirondack Lodge, **JI**; Keene Val., **Je**, *Not*; Chapel Pond, **Je**; Upper Ausable L., **JI**, *Not*; Artist's Br., **Je**; Speculator, **Je**-**JI**, *Yg*; Wells, **JI**; Old Forge, **JI**-Aug, *Ndm*; Sacandaga Pk., **Je**, *Alex*; Johnstown, **JI**-Aug, *Alex*; Mountain L., **Je**, *Alex*; Trenton Falls, **Je**; Clayville, **Je**; Oneida L., Aug; Crockets, Sep, *Chap*; Sodus Bay, Sep; Rochester, *Franck*; Charlotte, *Plm*; Hemlock L., Aug; Letchworth Pk., **JI**; Chautauqua Co, *Palmer*; Howard, **JI**; Penn Yan, **JI**, *Babiy*; Cinnamon L., **Je**-**JI**; Montour Falls, Sep; Alpine, Nov; Enfield Glen, May; Glenwood, Aug; Ithaca, **Je**-Oct; Caroline Center, May; McLean, May-**JI**; Freeville, Sep; Ringwood, **JI**; Owasco L., Nov; Baldwinsville, Sep, *Britcher*; Long Branch, Sep, *Britcher*; Jamesville, Oct; Apulia, Oct, *Britcher*; Tully, Oct, *Britcher*; Labrador Pond, May-**Je**, *Tarris*; Deruyter L., **JI**; Valcour I., Aug; Pearl Pt., **JI**; Juanita I., **JI**; Tongue Mt., Warren Co, Sep, *Leon*; Shelving Rock, L. George, **JI**, Sep; Cossayuna L., May, *Schoon*; Bumps Pond, **JI**; Thompson L., Sep, *Chad*; Mud Hollow Pond, **Je**; Voorheesville, **Je**-**JI**, *Leon*; E. Berne, **Je**; Waldorf, Oct; Poestenkill, **Je**, *Yg*; Tackawasick Pond, **Je**; Riders Mills, May; Kinderhook, **Je**, Aug, *Schoon*; L. Charlotte, **Je**; Hunter, Aug; Wappingers Falls, May; L. Katrine, Sep; Ashokan, Aug, *Treadwell*; Oakland Val., May; Pinekill, May; **LI**: Cold Sp. Harb., **Je**, *And*; Smithtown, **Je**, *Leon*; Long Pond, Suffolk Co, **Je**.

**T. laboriosa** Htz. Black Br., **Je**; Peru, **Je**; Keene Val., **JI**, *Not*; Ausable R., Aug; Mt. McIntyre, Aug; Paul Smiths, **JI**, *Babiy*; Saranac L., Aug (Em); Cranberry L. (Barrows); Wells, **JI**, *Yg*, *Babiy*; Sacandaga Pk., **Je**, *Alex*; Bleecker, Sep; Woodworth's L., **Je**, *Alex*; Trenton Falls, **Je**; Waterville, Aug; Clayville, **JI**; Smithville, Aug; Baldwinsville (Bks); Lake Bluff, Sep; Honeoye Falls, **JI**; Pt. Breeze, **Je**; Lakeside, **JI**; Barre Center, **Je**; Irving, Sep; Penn Yan, Aug; Cinnamon L., **Je**-**JI**, Sep; Taughannock Falls, **JI**; Ithaca, **JI**-Aug;

Ringwood, Jl, *Dt*; Otisco, Aug, *Britcher*; Onondaga Val., Je, *Britcher*; Pompey, Sep, *Britcher*; Apulia, Oct, *Britcher*; Tully, Oct, *Britcher*; Valcour I., Jl-Sep; Juanita I., Jl-Sep; Watervliet Reservoir, Aug, *Leon*; Mud Hollow Pond, Albany Co, Je; Tackawasick Pond, Je; Pike Pond, Je; Stamford, Je; Columbia Co; Kingston; Sam's Pt., May; Rhinebeck, Oct; Ashokan, Aug, *Treadwell*; Lagrangeville, May; Wappingers Falls, May; Oakland Val., May; NYC (Bks); **LI**: Bergen Beach, Je; Flatbush, Jl, *Pike*; Cold Sp. Harb., Je, *And*; Rockaway Beach, Sep, *Pike*; Shinnecock Hills, Je.

#### Theridiosoma Cambridge

- T. gemmosum** L. Koch. Wilmington Notch, Aug; Mt. Whiteface, Aug; Chapel Pond, Je; L. Colden, Jl; Cranberry L. (Barrows); Woodworth's L., Jl, *Alex*; Johnstown, Jl, *Alex*; Jamesville; Ithaca, Aug; Enfield Glen, Oct; Rensselaer, Jl, *Schoon*; Larchmont, Sep, *Wlf*; Central Nassau, Jl; **LI**, Je (Bks).

#### Zilla C. Koch

- Z. montana** C. Koch. Mt. McIntyre, Jl; Caroline Center, May; Thacher Pk., Je; Dormansville, Je.  
**Z. x-notata** Cl. NY (McCook).

### FAMILY MIMETIDAE

#### Ero C. Koch

- E. furcata** Vill. Wilmington Notch, Aug; Rye Pt., Sep; Penn Yan, Aug; Savona, Sep; Cinnamon L., May; Ithaca, Mar; Canastota, Mar, *Faure*; Vrooman's Nose, May; Dormansville, Je; Juanita I., Aug; **LI**, Sep (Bks).

#### Mimetetus Hentz

- M. interfactor** Htz. Pompey (Britcher); Crosby, Ap; Freeville, Aug-Sep; Enfield Glen, Oct; Ithaca, Jl-Sep; Karner, Ap, *Yg*; **LI**: Sheepshead Bay, Jl.

### FAMILY THOMISIDAE

#### Ebo Keyserling

- E. latithorax** Key. Onondaga Co (Britcher); **LI**, Sep-Oct (Bks).

#### Misumena Latreille

- M. vatia** Cl. Wilmington, Aug; Crater Club, Aug; Axton, *MacG*, *Houghton*; Saranac L., Aug; Cranberry L. (Barrows); Little Sandy Pond, Jefferson Co, Je, *House*; Wilton, Jl (Hoffman); Gloversville, Ap-May, Jl, *Alex*; Woodworth's L., May, Jl, *Alex*; Johnstown, Jl-Aug, *Alex*; Mountain L., May, *Alex*; Onondaga Co (Britcher); White L., Oneida Co, Jl; Lake Bluff, Aug; Rochester, *Franck*; Howard, Jl; Ithaca, May, Jl, Sep; Delaware L., May; McLean, May; Slaterville, May; Kirkland, Jl; Schenectady, Jl, *Yg*; Valley Falls, May, *Yg*; Central Nassau, Jl; Valcour I., Aug; Poughkeepsie, *vanIngen*; **LI**, May-Je, Oct.

## MISUMENOIDES Cambridge

- M. aleatorius** Htz. Old Forge, Je; Woodworth's L., May, *Alex*; Onondaga Co (Britcher); Rochester; Irving, Sep, *Chad*; Taughannock Falls, Aug, *Dt*; Ithaca, Aug (Bks); McLean, May; Albany, Aug; Catskill, Sep, *Chad*; Castleton, Sep, *Plm*; Poughkeepsie, *vanIngen*; Patterson, Aug; **SI**: Totten-ville, Aug, *Ds*; **LI**, Aug (Bks).

## MISUMENOPS Cambridge

- M. asperatus** Htz. Wilmington, Aug; Gloversville, Aug, *Alex*; Sacandaga Pk., Je, *Alex*; Ithaca, Oct; Oakland Val., May; **LI** (Bks).  
**M. celer** Htz. Ithaca (Bks).  
**M. oblongus** Key. Onondaga Co (Britcher); **LI**, Jl (Bks).

## OXYPTILA Simon

- O. americana** Bks. Ithaca, Oct (Bks).  
**O. conspurcata** Thor. Wilmington Notch, Aug; Ithaca, Je; McLean, May; Riders Mills, May; Poughkeepsie (Bks); Paradise, May; Oakland Val., May; **LI**: Sea Cliff, Oct (Bks).  
**O. monroensis** Key. **LI**: Sea Cliff (Bks).

## PHILODROMUS Walckenaer

- P. aureolus** Cl. Axton, *MacG*, *Houghton*; Sacandaga Pk., Jl, *Alex*; Oakland Val., May; **LI**, Jl (Bks).  
**P. bidentatus** Em. Valcour I., Aug.  
**P. canadensis** Em. Rochester; Plattsburg, Sep, *Plm*; Juanita I., Jl.  
**P. exilis** Bks. Freeville, May (Bks); Albany, Je.  
**P. infuscatus** Key. Interlaken, Nov; Ithaca, Sep (Bks); Poughkeepsie, *vanIngen*.  
**P. lineatus** Em. Onondaga Co (Britcher).  
**P. maculatus** Blackw. Ithaca (Bks).  
**P. minutus** Bks. Enfield, Je; Ithaca (Bks).  
**P. ornatus** Bks. Onondaga Co (Britcher); Howard, Jl; Ithaca (Bks); Poughkeepsie, *vanIngen*.  
**P. pernix** Blackw. Newcomb, Jl; Sacandaga Pk., Je, *Alex*; Onondaga Co (Britcher); Rochester, Je; Ithaca, Mar, Je-Jl, Nov-Dec; Albany, Ap; Thacher Pk., Je; Poughkeepsie, *vanIngen*; **LI**: Sea Cliff, Je (Bks).  
**P. placidus** Bks. Ithaca (Bks); **LI**, Jl (Bks).  
**P. robustus** Em. **LI**: Bayville (Bks).  
**P. rufus** Walck. Axton, *MacG*, *Houghton*; Wilmington Notch, Jl; Sacandaga Pk., Je, *Alex*; Onondaga Co (Britcher); Ithaca, May, Oct; Vrooman's Nose, May; Riders Mills, May; Valcour I., Aug; Mt. Utsayantha, May, *Chrisp*; Stamford, May; Oakland Val., May; **LI** (Bks).

## SYNAEMA Simon

- S. bicolor** Key. Sacandaga Pk., Je, *Alex*.

## THANATUS C. Koch

- T. coloradensis** Key. Onondaga Co (Britcher); Rochester, Nov, *Chad*; McLean, JI; Voorheesville, Je; Clinton Hgts., *Yg*; Valcour I., Aug; Rensselaer, Dec, *Schoon*; Defreestville, Mar; L. Katrine, Oct.
- T. rubicundus** Key. **LI**, Oct (Bks).

## TIBELLUS Simon

- T. oblongus** Walck. Axton, *MacG*, *Houghton*; Cranberry L. (Barrows); Saranac L., Aug; Sacandaga Pk., Je, *Alex*; Johnstown, Je, *Alex*; Woodworth's L., JI; Onondaga Co (Britcher); Pt. Breeze, Je; Junius Bog, Je; Cinnamon L., Je; Ithaca, May, JI; McLean, May; Valcour I., Aug; Albany, Je; Rensselaer, Jan, *Schoon*; **LI**, JI (Bks).

## TMARUS Simon

- T. angulatus** Walck. Onondaga Co (Britcher); Ithaca, Sep; McLean, May; Central Nassau, JI; **LI**, JI (Bks).

XYSTICUS C. Koch<sup>185</sup>

- X. acquiescens** Em. Scotia, Je, *Yg*.
- X. elegans** Key. Johnstown, JI, *Alex*; Ithaca, JI; McLean, May; Menands, JI; Rensselaer, Je, *Schoon*; L. George, Aug; **LI**: Brooklyn (Em).
- X. ferox** Htz. Johnstown, Sep, *Alex*; Sacandaga Pk., Je, *Alex*; Onondaga Co (Britcher); Geneva, Je; Ithaca, Ap, Je, Oct-Nov; Spencer, Je; Ringwood, JI; Albany, Je; Rensselaer, Je, *Schoon*; Poughkeepsie, *vanIngen*; **SI**: Tottenville, Je; **LI**: Sheepshead Bay, JI.
- X. formosus** Bks. Wilmington, Aug; Varna, Mar; McLean, May; Dormansville, Je; Tackawasick Pond, Je; Oakland Val., May.
- X. fraternus** Bks. **LI**, May (Bks).
- X. graminis** Em. Ithaca (Bks); McLean, May; **LI** (Bks).
- X. gulosus** Key. Gloversville, Ap, Aug, Oct, *Alex*; Barnevelt, Sep; Onondaga Co (Britcher); Lake Bluff, Sep; Ithaca, Oct-Nov; Manlius, *Smith*; Dormansville, Oct; Rensselaer, Oct, *Schoon*; Coxsackie, Mar; Poughkeepsie, *vanIngen*; **LI**: (Pike); Sea Cliff, Je (Bks).
- X. limbatus** Key. Wilmington Notch, Aug; Cranberry L. (Barrows); Saratoga, Je; Onondaga Co (Britcher); Bath, Aug; Enfield, May; Ithaca (Bks); Stamford, May, *Chrisp*; Dormansville, Je; Schenectady, Dec, *Dt*; L. Charlotte, Je; Poughkeepsie, *vanIngen*; **LI**: Brooklyn (Pike); Quogue, Ap; Long Pond, Suffolk Co, Je.
- X. luctans** C. Koch. Johnstown, Aug, *Alex*; Gloversville, Oct, *Alex*; Onondaga Co (Britcher); Ithaca, May, Aug; Clayville, Je; Rensselaer, Oct, *Schoon*; Nassau L., Sep; Wappingers Falls, May.
- X. nervosus** Bks. Gloversville, Ap, Oct, *Alex*; Pulaski, Nov; Lake Bluff, Sep; Lewiston, Sep, *Plm*; Howard, JI; Hall, Sep, *Glasgow*; Ithaca, Aug-Nov; Crosby, Sep; Kenwood, Oct, *Plm*; Poughkeepsie, *vanIngen*; L. Katrine, Oct, *Plm*; **LI**: Aug-Sep (Pike, Bks); Sea Cliff, Je (Bks).

<sup>185</sup> Miss Augusta Wolf is responsible for many of the determinations in this genus.

- X. triguttatus** Key. Axton, *MacG*, *Houghton*; Johnstown, May, *Alex*; Sacandaga Pk., Je, *Plm*; Barnevelt, May; Hilton, Je; Ithaca, Je-Jl, Sep; Ringwood, Jl; Trenton Falls, Je; Clayville, Je; Central Nassau, Jl; Burden L., Je; Tackawasick Pond, Je; Poughkeepsie, *vanIngen*; **LI**: Sea Cliff, Je.
- X. versicolor** Key. Cranberry L. (Barrows); Gloversville, Ap, Oct, *Alex*; Onondaga Co (Britcher); Geneva, Nov, *Glasgow*; L. Keuka, Sep; Ithaca, May, Nov; W. Winfield, Je; Valcour I., Aug; Scotia, Je, *Yg*; Karner, Nov; Albany, Je; Poughkeepsie, *vanIngen*; **LI**, Mar, Nov (Bks).

## FAMILY CLUBIONIDAE

## AGROECA Westring

- A. minuta** Bks. **LI**: Sea Cliff, May (Bks).
- A. ornata** Bks. Wilmington, Aug; Olcott, Sep; Clarksburg, Sep; Stow, Sep; Letchworth Pk., Jl; Ithaca, Ap, Oct; Elizabeth I., Aug; Oakland Val., May; Sterlington, May; **LI**, May (Bks).
- A. pratensis** Em. Wilmington Notch, Aug; Elizabethtown, Aug; Onondaga Co (Britcher); Enfield, May; Ithaca, Feb-Apr, Oct, Dec; McLean, May; Juanita I., Jl; Albany (Em); Guilderland Center, Dec; Poughkeepsie, *vanIngen*; **LI**: Forest Hills, Mar.

## ANYPHAENA Sundevall

- A. celer** Htz. Onondaga Co (Britcher); L. Keuka, Oct; Ithaca, Jan-Mar, Je, Oct-Nov; McLean, May; Normansville, Nov; Feura Bush, Dec; Rensselaer, Mar, *Schoon*; Poughkeepsie, *vanIngen*; Larchmont, Sep, *Wlf*; Dunwoodie, May, *Pioneer Youth*; **SI**: Clove Val., Nov; **LI**: Flushing, Nov.
- A. fraterna** Bks. **LI**: Roslyn, May (Bks); Sea Cliff, Je (Bks).
- A. gracilis** Htz. **LI**, Oct (Bks).
- A. pectorosa** L. Koch. Albany, Je; **LI**: Farmingdale, Je.
- A. rubra** Em. **LI**: Cold Sp. Harb., Je, *And*.
- A. saltabunda** Htz. Enfield Glen (Bks); Ithaca, Sep (Bks); **LI**: Cold Sp. Harb., Je, *And*.

## APOSTENUS Westring

- A. acutus** Em. **LI** (Em).

## CASTANEIRA Keyserling

- C. cingulata** C. Koch. Onondaga Co (Britcher); Cinnamon L., Jl; Ithaca, Aug; Juanita I., Jl, Sep; S. Westerlo, May; Poughkeepsie, *vanIngen*; **LI**: Sea Cliff, May (Bks).
- C. descripta** Htz. Wilmington, Aug; N. Elba, Jl; Cranberry Cr., Aug; Onondaga Co (Britcher); Ithaca, May, Aug, Oct; Valcour I., Aug; Kenwood, Sep; S. Rensselaer, Jl; Poughkeepsie, *vanIngen*; **LI**, Aug.
- C. longipalpus** Htz. Onondaga Co (Britcher); Ithaca (Bks); Burden L., Aug, *Schoon*; **LI**, Aug (Bks).
- C. trilineata** Htz. **LI**: Sea Cliff, Jl-Aug (Bks).

## CHIRACANTHIUM C. Koch

- C. inclusum** Htz. Cranberry L. (Barrows).



## CLUBIONA Latreille

- C. abboti** L. Koch. Wilmington Notch, J1; Gloversville, Ap, *Alex*; Lake Bluff, Sep; Cinnamon L., J1; Spencer, Je; Ithaca, Feb, May, Oct; McLean, May; Juanita I., J1; Albany, Je (Hartman); Rensselaer, J1, *Schoon*; Wappingers Falls, May; Kingston, Aug, *Schoon*; Stamford, May, *Chrip*; Slide Mt., Je; Cragmoor, May; Maratanza L., May; Pine I., May; Hunter, Je, *Plm*; **LI**: Gardiners I., May; Montauk Pt., May.
- C. canadensis** Em. Wilmington, Aug; Mt. Whiteface, Aug; Mt. McIntyre, J1; L. Keuka, Oct; Cinnamon L., J1; Ithaca, Oct; Riders Mills, May; Slide Mt., Je; Stamford, May, *Chrip*.
- C. emertoni** Petrunk. Lake Bluff, Sep; Freeville, May; Juanita I., Aug; Little Pond, Orange Co, May; **LI**, Oct (Bks).
- C. lenta** Bks. Ithaca, Sep (Bks).
- C. littoralis** Bks. **LI**: Sea Cliff, Je (Bks).
- C. minutissima** Petrunk. Ithaca, Nov (Bks); Interlaken, Aug; **LI**: Sea Cliff, J1 (Bks).
- C. obesa** Htz. Sacandaga R., Je, *Alex*; Lake Bluff, Sep; Clyde, Sep; Rochester; Youngstown, Oct; Crosby, Ap; Ithaca, May, Oct, Nov; Newfield, Je; McLean, May; Albany, Je; Thacher Pk., May; Cossayuna L., May, *Schoon*; Queechy L., May, *Schoon*; Juanita I., J1; Cragmoor, May; Oakland Val., May; **LI**: Sea Cliff, Dec (Bks); Roslyn, Dec (Bks).
- C. pallens** Htz. Oak Ridge, Canandaigua L., Aug; Ithaca, Nov; Voorheesville, Je; Juanita I., J1; Elizabeth I., Aug; Shelving Rock, Sep, *Leon*; Wappingers Falls, May; **LI**: Oct, Dec (Bks); Baiting Hollow, May.
- C. pygmaea** Bks. Ithaca, Sep, Nov (Bks); **LI**, J1 (Bks).
- C. riparia** L. Koch. Sacandaga Pk., Je; Onondaga Co (Britcher); Ithaca (Bks); McLean, May; Scotia, Je, *Yg*; Albany, Je; Delmar, J1; Riders Mills, May; Poughkeepsie, *vanIngen*; **LI**, Dec (Bks).
- C. tibialis** Em. Ithaca, Aug (Bks); **LI** (Bks, Em).

## LIOCRANUM L. Koch

- L. calcaratum** Em. Mt. Whiteface, Aug (Em); Wilmington, Aug; Auger Pond, Nov; Uphill Br., Opalescent R., J1; Connecticut Hill, Oct.

## MICARIA Westring

- M. agilis** Bks. **LI**: Sea Cliff (Bks).
- M. aurata** Htz. Onondaga Co (Britcher); Ithaca, Aug-Sep (Bks); **SI** (Bks); **LI** (Em).
- M. gentilis** Bks. Clyde, Ap.
- M. montana** Em. Onondaga Co (Britcher); **LI** (Bks).

## PHRUROLITHUS C. Koch

- P. alarius** Htz. Malone, Oct; Stow, Sep; Lakeside, J1; Letchworth Pk., J1; Cheshire, Oct; Guyanoga, Je; L. Keuka, Sep; Barrington, Oct; Taughannock Falls, Mar, J1; Ithaca, May-Je, Aug, Dec; Deruyter L., J1; Labrador Pond, Je; Tackawasick Pond, Je; Dormansville, May; Albany, J1; Crystal L., J1; S. Westerlo, May; Sam's Pt., May; **LI**: Montauk Pt., May.

- P. britcheri** Petrunk. Onondaga Co, *Britcher*.  
**P. formica** Bks. Silver Bay, Sep, *Leon*; Spencerport, May; Sam's Pt., May; **LI**, Dec (Bks).  
**P. minutus** Bks. Ithaca, Sep (Bks).  
**P. palustris** Bks. Lake Bluff, Sep; Barcelona, Sep; Stow, Sep; Richburg, Sep; Little Valley, Sep; Alabama, Je; Rye Pt., Sep; Barrington, Oct; Savona, Sep; Cinnamon L., Jl; Taughannock, Aug; Enfield, Je; Ithaca, Aug; McLean, May-Je; L. George, Aug; Feura Bush, Dec; Crystal L., Jl; Thacher Pk., May; Vrooman's Nose, May; Little Pond, Orange Co, May; Tuxedo, Oct, *Wlf*; Larchmont, Sep, *Wlf*; **SI**: Clove Val., Nov; **LI**: Flushing, Je; Sea Cliff, Je; Garden City, Je; Baiting Hollow, Ap.  
**P. pugnatus** Em. Ithaca (Bks); Karner, Mar; Little Pond, Orange Co, May; Sam's Pt., May.  
**P. similis** Bks. McLean, May; **LI**: Sep-Oct (Bks); Gardiners I., May.

## TRACHELAS L. Koch

- T. deceptus** Bks. **LI**: Sea Cliff, Sep-Oct (Bks); Gardiners I., May; Montauk Pt., May.  
**T. tranquillus** Htz. Onondaga Co (*Britcher*); Clyde, Aug-Sep; Glen Haven, Sep; Rochester; Hall, Sep, *Glasgow*; Geneva, Nov, *Glasgow*; L. Keuka, Oct; Taughannock Falls, Oct; Ithaca, Jan, Aug-Oct; Utica; Albany, Sep-Oct; Rensselaer, Jl, Sep, Oct, *Schoon*; Poughkeepsie, *vanIngen*; NYC (Bks); **LI**: Sea Cliff, Sep, *Wlf*, *Taub*.

## ZORA C. Koch

- Z. spinimana** Sund. **LI**: Baiting Hollow, May.

## FAMILY AGELENIDAE

## AGELENA Walckenaer

- A. naevia** Walck. Mt. Marcy, Aug; Wilmington, Aug; Upper Jay, Sep, *Plm*; Chateaugay L., Sep, *Plm*; Cranberry L. (Barrows); Watertown, Sep, *Plm*; Big Moose, Aug, *Plm*; Raquette Falls, Aug; Gloversville, Aug-Sep, *Alex*; Johnstown, Aug, *Alex*; Cazenovia, Sep; Baldwinsville; E. Onondaga, Sep; Clyde, Aug; Lake Bluff, Jl, Sep; East Bay, Sep; Cayuga, Oct, *Chad*; Rochester, Nov, *Chad*; Geneva, Nov, *Glasgow*; Hornell, Sep; Glen Haven, Sep; Alpine, Sep; Cinnamon L., Sep; Interlaken, Nov; Ithaca, Jl-Nov; Ringwood, Jl-Aug; Albany, Jl, Sep; Kenwood, Sep-Oct; Rensselaer, Jl-Sep, *Schoon*; Lyon's L., Aug; Plattsburg, Sep, *Plm*; Valcour I., Aug; Elizabeth I., Jl-Aug; Juanita I., Jl; Black Mt., Washington Co; Jabe Pond, Sep, *Leon*; Stockport, Sep, *Plm*; Poughkeepsie, *vanIngen*; Wappingers Falls, May; Catskill, Sep, Nov; Kingston, Aug-Sep, *Schoon*; L. Mahopac, Sep, *Fox*; Hunter, Aug, *Mills*; Tuxedo, Oct, *Wlf*; Van Cort. Pk., Sep, *Plm*; **SI**: Clove Val., Nov; Silver L., Aug; **LI**: Brooklyn (Em); Jamaica, Oct; Forest Hills, Nov; Sea Cliff; Mattituck, Aug.

## CICURINA Menge

- C. arcuata** Key. Old Forge, Oct, *Sib*; Gloversville, Oct, *Alex*; Mountain L., Ap; Lake Bluff, Sep; Olcott, Sep, *Dt*; Newfane, Oct; Little Valley, Sep; Richburg, Sep; Clarksburg, Sep; W. Barre, Sep; Guyanoga, Je; Penn Yan, May;

- Egleston's Glen, Sep; Cayuga, Oct, *Chad*; Alpine, Nov; Connecticut Hill, Aug-Oct; Interlaken, Nov; Enfield Glen, Ap; Danby, Oct; Ithaca, Ap, Oct; McLean, Ap-May; Cascade, Nov; Pearl Pt., J1; Meadowdale, Ap-May; Crystal L., J1; Riders Mills, May, *Chrisp*; Schodack, Ap; Oakland Val., May; Sterlington, May; Larchmont, Sep, *Wlf*.
- C. brevis** Em. Wilmington, Aug; Wilmington Notch, Aug; High Falls, Aug; Auger Pond, Nov; Adirondack Lodge, J1; Northville, Ap; Gilman L., Ap; Elizabethtown, Aug; Lake Bluff, Sep; Olcott, Sep, *Dt*; Stow, Sep; Richburg, Sep; Clarksburg, Sep; Little Valley, Sep; Rock City, Sep; Castile, May; Potter, May; Guyanoga, Je; Rye Pt., Sep; Egleston's Glen, Sep; Crosby, Dec; Penn Yan, May; Montour Falls, Sep; Connecticut Hill, Aug, Oct; Enfield, Aug, Oct; Danby, Oct; Ithaca, Ap-May, Oct; Freeville, May; McLean, Ap-May; Labrador Pond, Je; W. Winfield, Je; Valcour I., Aug; Slide Mt., Je; Juanita I., Aug; Trenton Falls, Je; Waterford, Ap; Altamont, Ap; Karner, Mar; Rensselaer, Nov; Cragmoor, May; Pinekill, May; Tuxedo, Oct, *Wlf*; **LI**: Roslyn, Oct (Bks).
- C. pallida** Key. Newcomb, J1; Charley L., Ap; Mt. Rouge, Hamilton Co, J1, *Yg*; Rye Pt., Sep; Egleston's Glen, Sep; Guyanoga, Je; Penn Yan, Aug; Alpine, Nov; Ithaca, Mar-Apr; McLean, May; Cascade, Nov; Labrador Pond, Je; Altamont, Ap; S. Westerlo, May; Rensselaer, May, *Schoon*; Valcour I., Aug; Silver Bay, Sep, *Leon*; Poughkeepsie, *vanIngen*; Tuxedo, Oct, *Wlf*; Larchmont, Sep, *Wlf*.
- C. placida** Bks. Ithaca (Bks); Meadowdale, May; Crystal L., J1; Sam's Pt., May; Cragmoor, May.
- COELOTES** Blackwall
- C. calcaratus** Key. Wilmington Notch, Aug; Charley L., Ap; Lake Bluff, Sep; Olcott, Sep; Richburg, Sep; Cheshire, Oct; Penn Yan, May; Rye Pt., Sep; L. Keuka, Dec; Savona, Sep; Connecticut Hill, Oct; Ithaca, Ap-May, Aug; McLean, Ap-May; Cascade, Nov; Valcour I., Aug; Pearl Pt., J1; Silver Bay, Sep, *Leon*; Poughkeepsie, *vanIngen*; Suffern, Ramapo Mts., May; Pinekill, May; Larchmont, Sep, *Wlf*.
- C. fidelis** Bks. Uphill Br., Opalescent R., J1; Chateaugay L., Sep, *Plm*; E. Onondaga, Sep, *Plm*; Olcott, Ap; W. Barre, Sep; Bath, Mar; Painted Post, Sep; Rochester, Nov, *Chad*; Cayuga, Oct, *Chad*; Taughannock Falls, Mar; Enfield Glen; Spencer, Aug; Ithaca, Feb-May, Aug, Nov; McLean, Ap-May, Oct; Delhi, May; Albany, Ap; W. Berne, Ap; Delmar, Ap; S. Westerlo, May; Thacher Pk., Je; Meadowdale, May; Greenville, Ap; Vrooman's Nose, May; Averill Pk., Je, *Plm*; Rensselaer, Nov, *Schoon*; Riders Mills, May; Crown Pt., Sep, *Plm*; Juanita I., J1; Shelving Rock, Sep, *Leon*; Delhi, May; Turner, Aug; Wappingers Falls, May; Hunter, Aug; Paradise, May; Pine I., May; Pinekill, May; Sam's Pt., May; Mt. Utsayantha, Oct; Tuxedo, Oct, *Wlf*.
- C. hybridus** Em. Chateaugay L. (Em); Adirondack Lodge, J1; Gloversville, Je, Oct, *Alex*; E. Onondaga, Sep; Rochester, Sep-Oct; Glen Haven, Sep, *Plm*; Potter, May; Montour Falls, Oct; Enfield Glen, Ap; Ithaca, May, Aug (Bks); McLean Bogs, Ap; Altamont, Ap; New Salem, Ap; Thacher Pk., Je; Rensselaer, Ap; E. Schodack, Sep; Catskill, Oct, *Chad*; Elizabeth I., Aug; Poughkeepsie, *vanIngen*; Bronx Pk., Sep, *Plm*; **LI**: Sea Cliff (Bks).
- C. montanus** Em. Beaver R., J1; Chateaugay L. (Em); Gilman L., Ap; McLean, Oct; Lake Bluff, Sep; Voorheesville, Ap; Valcour I., Aug.
- C. nigriceps** Bks. **LI**: Roslyn, Oct (Bks).

CORAS Simon

- C. medicinalis** Htz. Chateaugay L. (Em); Wilmington, Aug; Wilmington Notch, Aug; Gloversville, Oct, *Alex*; E. Onondaga, Sep; Hemlock L., Aug; Ithaca, Oct-Nov; Deruyter L., J1; Schoharie (Em); Valcour I., Aug; **LI**, J1 (Bks).

CRYPHOECA Thorell

- C. montana** Em. Mt. Whiteface, Aug; Wilmington, Aug; Wilmington Notch, J1-Aug; Uphill Br., Opalescent R., J1; High Falls, Aug; Adirondack Lodge, J1; Guyanoga, Je; Montour Falls, Sep; McLean, May; Slide Mt., May-Je; Mt. Utsayantha, May, *Chrisp*.

CYBAEUS L. Koch

- C. giganteus** Bks. Ithaca (Bks).

HAHNIA C. Koch

- H. agilis** Key. Wilmington Notch, Aug; Onondaga Co (Britcher); Lake Bluff, Sep; Otto, Aug; Olcott, Sep; Richburg, Sep; Rock City, Sep; Ithaca, May-Je, Aug; Slaterville, Aug; McLean, Ap; Deruyter L., J1; Dormansville, Je; French Mills, Albany Co, Mar; Vrooman's Nose, May; Juanita I., J1; Pine I., May; **LI**: Baiting Hollow, Ap.
- H. brunnea** Em. Cinnamon L., Je-J1; Freeville, Ap, Aug; Ithaca (Em); McLean, May; Little Pond, Orange Co, May.
- H. cinerea** Em. Wilmington Notch, Aug; Wilmington, Aug; Newcomb, J1; Olcott, Sep; Ithaca, Ap; Freeville, Aug; Labrador Pond, Je; Karner, Mar; Juanita I., J1; Little Pond, Orange Co, May; Sam's Pt., May; **LI**: Riverhead, Ap.
- H. radula** Em. Ithaca (Bks).

TEGENARIA Latreille

- T. domestica** Cl. Tahawus, J1; Onondaga Co (Britcher); Ithaca, May; Rochester; Albany, Mar; Kingston, Sep, *Schoon*; Poughkeepsie (Em).

FAMILY PISAUROIDAE

DOLOMEDES Latreille

- D. scriptus** Htz. Newcomb, Sep, *House*; Chilson L., Essex Co; Chapel Pond, J1; Cazenovia; Onondaga L., Sep, *Plm*; Clyde, Ap; Rochester, *Franck*; Locke; Ithaca, May, J1, Sep; Enfield Glen, Je, Aug, Oct, *Ndm*; Glenwood, Aug, *Leon*; N. Lansing, Je; Elizabeth I., L. George, J1-Aug; Juanita I., Pearl Pt., J1; Bolton Landing, L. George, J1; Kattskill Bay, Aug; Albany; Dormansville, Je; Slingerlands, J1; Rensselaer, Mar, *Schoon*; Pike Pond, Rensselaer Co, Je; Nassau L., Mar, *Schoon*; E. Greenbush, Je, *Plm*; Burden L., J1, *Schoon*; Tackawasick L., Je; E. Nassau, Je, *Wlf*; Kinderhook L., Sep, *Schoon*; Merrill; Valcour I., L. Champlain, Aug; Hoversville, Je; Riders Mills, May; Ashokan; Stamford, Je.
- D. striatus** Giebel. Ithaca; Ringwood; McLean Bogs, Sep; Kinderhook, Sep; Pine I., Orange Co., Sep.
- D. tenebrosus** Htz. Axton, *MacG*, *Houghton*; Keene Val., J1; Deer I., Thousand Isls.; Saratoga (McCook); Johnstown, Aug, *Alex*; Gloversville, Aug, *Alex*; Mountain L., *Alex*; Manlius; Batavia (McCook); Hemlock L., Je; Ithaca,

- Ap (Comst); McLean, Je; Berkshire; Thacher Pk., May; Valcour I., Aug; Elizabeth I., JI; Juanita I., Aug; **LI**: Sea Cliff (Bks); Cold Sp. Harb.
- D. triton sexpunctatus** Htz. Brittons; Long Branch; Clyde, Sep; Sodus Bay, Sep; Sodus Pt., Sep; Rochester, *Franck*; Cinnamon L., JI; Ithaca, Aug; McLean Bogs, May, JI; Albany; Kenwood, May, *Plm*; Rensselaer, Je, *Schoon*; **SI**: Grasmere Sta; **LI**: Baldwin.
- D. urinator** Htz. Ithaca, Ap (Bks); Rensselaer, Aug, *Schoon*; Debruce; **LI**: Jamaica.
- D. vittatus** Walck. Green L., Onondaga Co; Ithaca, Mar; Voorheesville, Ap; Rensselaer, Je, *Schoon*; Nassau L., Sep, *Schoon*; New Rochelle, Ap; **LI** (Bks).

## PISAURINA Simon

- P. brevipes** Em. **SI**: Watchogue, JI, *Burns*; **LI**: Sands Pt., Sep, *Burns*.
- P. mira** Walck. Saratoga, Je; Brittons; Jamesville; Baldwinville; Long Branch; Rochester, *Franck*; Otto, May; Honeoye Falls, May; Keuka L., Je; Taughannock Falls, Oct; Enfield, Oct; Ithaca, JI, Sep, Nov; McLean Bogs, May; Albany, May-Je, Oct; Voorheesville, Dec; Riders Bridge, May; Selkirk, Sep; Rensselaer, Mar, *Schoon*; Valcour I., Je, *Hudson*; Bumps Pond, JI; Fishkill Landing, Sep, *Plm*; **SI**: Hyde Pk.; **LI**: Flatbush; Oyster Bay, Ap, *Plm*; Cold Sp. Harb., Je.
- P. mira** var. *subinflata* Htz. Onondaga Val.; Baldwinville; Indian Reservation, Onondaga Co; Enfield Glen, Aug; Riders Mills.

## FAMILY LYCOSIDAE

## ALLOCOSA Banks

- A. funerea** Htz. **LI**: Montauk Pt., May.
- A. rugosa** Key. Little Pond, Orange Co, May; **LI** (Em).

## ALOPECOSA Simon

- A. beanii** Em. Gloversville, May, *Alex*.

## ARCTOSA C. Koch

- A. littoralis** Htz. N. Fair Haven, JI; Albany, May (Em); Rensselaer, Sep, *Schoon*; **SI**: Tottenville, JI, *Ds*; **LI**: Cold Sp. Harb.
- A. rubicunda** Key. Upper Jay, Sep, *Plm*; Gloversville, Ap-May, *Alex*; Taughannock Falls, Aug, *Dt*; Ithaca, Mar; Caroline Depot, Ap; Albany; Clarks-ville, May; Pike Pond, Rensselaer Co, Je; E. Nassau, Je, *Wlf*; Wappingers Falls, May; **LI**, Oct (Bks).

## LYCOSA Latreille

- L. alpigena** Dol. Mt. Marcy, *Adams*.
- L. aspersa** Htz. Hope, Aug; Wells, Oct, *Yg*; Chautauqua Co, Je; Ithaca, Aug; Naples, Aug; Burden L., Aug, *Schoon*; Elizabeth I., JI; Tackawasick Pond, Je; **LI** (Chamb).
- L. avara** Key. Onondaga Co (Britcher); Rochester, *Franck*; Ithaca; Jan, Mar (Bks); L. Katrine, Oct, *Chad*; **LI**: Bayville, Dec (Bks).



- L. avida** Walck. Ballston L., J1; Lake Bluff, Sep; Taughannock Falls, Aug; Ithaca, May, J1-Aug, Oct; Spencer, Je, *Frost*; Trenton Falls, Je; Albany, Je; Thacher Pk., Je; Delmar, J1; Voorheesville, Oct; Dormansville, Je; Thompson L., Je; Medusa, Ap; Mud Hollow Pond, Je; Rensselaer, May, *Schoon*; Hudson, May; Ancram, Je; Paradise, May; Goshen, May; **SI**: Tottenville, Je; Watchogue, J1; **LI**: Wading R., Je.
- L. baltimoriana** Key. Gloversville, May, *Alex*.
- L. carolinensis** Walck. Schroon L., Aug; Chilson L., Sep; Wells, J1, *Yg*; Galway, May, *Fuller*; Gloversville, Oct, *Alex*; Onondaga Co (Britcher); **LI**: Riverhead, Aug, *Ds*.
- L. fatifera** Htz. Sea Breeze, Sep.
- L. frondicola** Em. Wilmington, Aug; Upper Jay, Sep, *Plm*; Newcomb, J1; Wells, Oct, *Yg*; Onondaga Co (Britcher); Otto, Sep; Penn Yan, Sep; Ithaca, May, Aug; Caroline Depot, Ap; Freeville, Sep; Slaterville, May; McLean, May; Deruyter L., J1; Dormansville, Je; Thompson L., Je; Valcour I., Aug; Spruce Mountain, L. George, Sep, *Leon*; Elizabeth I., J1-Aug; Vrooman's Nose, May; Catskill, Aug, *Chad*; Spooky Hollow, Greene Co, *Chad*; Stamford, Oct; Milton, Ap; L. Charlotte, Je; Wappingers Falls, May; L. Katrine, Oct; Paradise, May; Pinekill, May.
- L. gulosa** Walck. Wilmington, Aug; Upper Jay, Sep, *Plm*; Gloversville, Sep, *Alex*; Rock City, Sep; Ithaca; McLean, May; Rensselaer, Mar, Je, Oct, *Schoon*; Silver Bay, Sep, *Leon*; Elizabeth I., Aug; **LI**.
- L. helluo** Walck. Upper Jay, Sep, *Plm*; Gloversville, Aug, *Alex*; Onondaga Co (Britcher); Clyde, Aug; Rochester, *Franck*; Tyrone, Sep; Oak Ridge, Canandaigua L., Aug; Glenwood, Aug, *Leon*; Taughannock Falls, J1; Ithaca, Jan, Ap-Aug, Dec; McLean, Ap-May, J1; W. Winfield, Je; Cranberry Cr., Aug; Kenwood, May; W. Albany, Je; Voorheesville, Ap, Je; Slingerlands, J1; Dormansville, Je; Featherstone L., Schenectady Co, J1; Meadowdale, Ap; Menands, Je, *Peck*; E. Berne, Je; Rensselaer, Jan, Ap-J1, Sep-Oct, *Schoon*; Pike Pond, Rensselaer Co, May-Je; Tackawasick Pond, Je; Schodack, Ap; Riders Mills, May; Juanita I., J1; Elizabeth I., J1; Wappingers Falls, May; Saugerties, Aug; Cornwall, May, *Wlf*; Goshen, May; Paradise, May; Hancock, May; **SI**: Watchogue, Sep; **LI**: Montauk Pt., May.
- L. mordax** Walck. NY (Walckenaer, Marx).
- L. nidifex** Marx. Albany (Em); Sand Plains, near Albany, May; **SI**: Tottenville, Je; **LI**: Great Pond, Riverhead, May; Bridgehampton, Aug; Long Pond, Suffolk Co, Je.
- L. pikei** Marx. Rochester (McCook); Albany (Em); **SI**: Tottenville, Je-J1; **LI**: Bayville, Aug-Sep, *Bks*; Shinnecock Hills (Marx); Bridgehampton, Aug; Montauk Pt., May; Baiting Hollow, May.
- L. pratensis** Em. Wilmington, Aug; Mt. Whiteface, Aug; Axton, *MacG*, *Houghton*; Plattsburg, Sep, *Plm*; Sacandaga Pk., J1, *Alex*; Baldwinsville (Bks); Clyde, Ap; Rochester; Charlotte, Sep, *Plm*; Barcelona, Sep; Olcott, Ap; Ithaca, Mar-May; McLean, May; Caroline Depot, Ap; Valcour I., Aug; Juanita I., J1; Pearl Pt., J1; Bumps Pond, J1; Albany, Ap, *Schoon*; Dormansville, Je; Medusa, Ap; Rensselaer, Ap, Oct, *Schoon*; E. Schodack, Sep, *Yg*; Wappingers Falls, May; Hudson, May; Alsen, May; Copake Falls, Ap, *Chap*; Stamford, May, *Chrisp*; Tuxedo, Oct, *Wlf*; **LI**: Baiting Hollow, Ap.
- L. punctulata** Htz. **LI**, Oct (Bks).
- L. rabida** Walck. Ithaca (Bks); **LI**, Sep (Bks).

## PARDOSA C. Koch

- P. atlantica* Em. **LI**: Fire I. (Em).
- P. banski* Chamb. **LI**: Mill Neck, Je (Bks); Sheepshead Bay, Aug; Gardiners I. May.
- P. distincta* Blackw. Mt. Whiteface, Aug; Wilmington, Aug; Mt. Marcy, Jl-Aug; L. Tear, Jl; N. Elba, Jl.
- P. emertoni* Chamb. Keeseville, Je; Wells, Jl, *Yg*; Speculator, Jl, *Yg*; Woodworth's L., Jl, *Alex*; Onondaga Co (Britcher); Ithaca, Aug-Sep; McLean, Ap; Deruyter L., Jl; Juanita I., Jl; Pearl Pt., Aug; Black Mt. Pt., Jl; Dormansville, Je.
- P. lapidicina* Em. Axton, *MacG*, *Houghton*; Onondaga Co (Britcher); Lake Bluff, Sep; Sodus Pt., Sep; East Bay, Sep; N. Fair Haven, Jl; Crocketts, Sep; Rochester, *Franck*; Bluff Pt., Sep; Eggleston's Glen, Je; Rye Pt., Sep; Elmira, Jl; Oak Ridge, Canandaigua L., Aug; Montour Falls, Sep; Cayuta L., Jl; Enfield Glen, Oct; Ithaca, May-Jl, Aug, Oct; Caroline Center, May; Valcour I., Aug; Juanita I., Jl; Pearl Pt., Jl; Kenwood, May; Wells, Je, *Babiy*; Dormansville, Je; Rensselaer, May; Schodack, Je, *Wlf*; Pike Pond, Rensselaer Co, Je; Tackawasick Pond, Je; **LI**: Gardiners I., May.
- P. mackenziana* Key. Mt. Whiteface, Aug; Uphill Br., Opalescent R., Jl; Wilmington, Aug; Crystal L., Jl; Burden L., Aug, *Schoon*; Catskills, Aug, *Schoon*.
- P. milvina* Htz. Uphill Br., Opalescent R., Jl; Sacandaga Pk., Je, *Alex*; Gloversville, Aug, *Alex*; N. Rose, Je; Clyde, Aug; Lake Bluff, Sep; East Bay, Sep; Rochester, *Franck*; Irving, Sep, *Chad*; Naples, Aug; Tyrone, Sep; Ithaca, May-Je, Oct; Alsen, Sep; Vrooman's Nose, May; Schenectady, Jl; Ravena; Albany, Je; Slingerlands, Mar, *Wlf*; Rensselaer, May, Jl, *Schoon*; Mill Cr., May, *Plm*; Vail Gate, May; Ashokan, Je; Pine I., May; Dunwoodie, May; **SI**, **Jl**; **LI**: Sheepshead Bay, Jl.
- P. modica* Blackw. Baldwinsville (Em); Clyde, May; Ithaca (Bks); Little Utica, Je; Albany, Ap; New Salem, Ap. **LI**: Mill Neck (Bks).
- P. modica* var. *brunnea* Em. Waterford, Ap, *Chad*.
- P. moesta* Bks. Mt. Whiteface, Aug; L. Tear, Jl; Keene Val., Sep; Newcomb, Oct; Saratoga, Je; Rochester, *Franck*; Cinnamon L.; Ithaca, May; McLean, Je-Jl; Penn Yan; Wemple, May; Voorheesville, Je; Hoversville, Je; Featherstone L., Schenectady Co, Jl; Rensselaer, Ap-Je, *Schoon*; Tackawasick Pond, Je; Valley Falls, May, *Yg*; Wappingers Falls, Je; Stamford, Je, Aug, *Chrisp*; Mt. Utsayantha, May; Dunwoodie, May; **LI**.
- P. muscicola* Em. Mt. Whiteface, Aug (Em); Mt. Marcy, Jl; Mt. McIntyre, Jl.
- P. saxatilis* Htz. L. Tear, Jl; Newcomb, Jl; Wells, Jl, *Yg*; Gloversville, Aug-Sep, *Alex*; Onondaga Co (Britcher); Loucks Pond, Jl; L. Keuka; Cinnamon L., Je-Jl; Ithaca (Bks); Vrooman's Nose, May; Voorheesville, Je; Scotia, May-Je, *Yg*; Dormansville, Je; Myosotis L., Albany Co., Jl; Rensselaer, May-Jl, *Schoon*; E. Schodack, Je, *Chad*; Riders Mills, May; Black Mountain Pt., Jl; Wappingers Falls, May; Red Hook, Je; Goshen, May; Paradise, May; Dunwoodie, May; **LI** (Bks).
- P. xerampelina* Key. Wilmington, Aug; Avalanche L., Jl; Keene Val., Sep; Chapel Pond, Je; Paul Smiths, Jl, *Plm*; Raquette Falls, Aug; Cranberry Cr., Aug-Sep; Gloversville, Aug, *Alex*; Howard, Jl; Penn Yan, May; Eggleston's Glen, Je; Elmira, Jl; Ithaca, May; McLean, May, Jl; Freeville, Ap, Aug; Deruyter L., Jl; Delhi, May; Albany, Je; Shakers, May; Voorheesville, May-Je; Thacher Pk., May; Dormansville, Je; Clarksville, May; Mud Hollow Pond, Je; Rensselaer, Mar-Jl, *Schoon*; Tackawasick Pond, Je; Pike Pond,

Rensselaer Co, Je; E. Schodack, Je, *Chad*; Queechy L., May, *Schoon*; Nassau, Je, *Schoon*; Riders Mills, May, *Chrisp*; Pearl Pt., Aug; Sleeping Beauty Mt., J1; Cossayuna L., May, *Schoon*; Wappingers Falls, May; Maratanza L., May; Hunter, Je; Little Pond, Orange Co, May; Stamford, Je.

## PIRATA Sundevall

*P. arenicola* Em. Cranberry Cr., Aug; Schenectady, Je.

*P. aspirans* Chamb. Ithaca (Bks); Voorheesville, Je.

*P. humicola* Mont. NY (Petrunk).

*P. insularis* Em. Long L. (Em); Axton, *MacG*, *Houghton*; Cranberry L. (Barrows); Paul Smiths, J1, *Plm*; Saratoga, Je; Onondaga Co (Britcher); Sodus Bay, Sep; Lake Bluff, Sep; Lakeside Pk., Orleans Co, J1; Hemlock L., Aug; Loucks Pond, J1; Cayuta L., J1; Cinnamon L., J1; W. Danby, J1; Spencer, Je, Aug; Ithaca, Je-Aug; Ringwood, Oct; Freeville, Ap, Aug; McLean, May; Venice Center, Je; Juanita I., J1; Kenwood, Je; Dormansville, Je; E. Nassau, Je, *Wlf*; Pike Pond, Rensselaer Co, J1; Tackawasick Pond, Je; **LI**: Riverhead, Aug.

*P. marxi* Stone. Saratoga, Je; Gloversville, Aug, *Alex*; Ithaca (Bks); Cinnamon L., Je-J1; Central Nassau, J1; **LI**: Flushing, Nov.

*P. minutus* Em. Mt. Whiteface, Aug; L. Tear, J1; Cranberry Cr., Aug; Gloversville, Sep, *Alex*; Barneveld, J1; Tyrone, Sep; Cinnamon L., J1; Taughannock Falls, J1; Ithaca, Aug; McLean, Je; Slaterville, May; Irving, Sep, *Chad*; Crystal L., J1; Rensselaerville, J1; Dormansville, Je; Rensselaer, J1, *Schoon*; Central Nassau, J1; Red Hook, Je; Pike Pond, Rensselaer Co, Je; Mt. Lebanon, May, *Chrisp*; Mt. Utsayantha, May, *Chrisp*.

*P. montanus* Em. Long L. (Chamb); Mt. Marcy, Sep; Gloversville, Sep, *Alex*; Lake Bluff, Sep; Interlaken, J1; Connecticut Hill, Aug; Rye Pt., Sep; Watkins, May; Ithaca, May-Je; Labrador Pond, Je; Kenwood, May-Je; Thacher Pk., May-Je; Pearl Pt., J1; Oakland Val., May; Paradise, May; Little Pond, Orange Co, May.

*P. wacondana* Scheffer. Upper Jay, Sep, *Plm*; Beaver R., J1; Hemlock L., Aug; Cinnamon L., J1; Spencer, Aug; Ithaca, Je; Kenwood, Je; Rensselaerville, J1; Tackawasick Pond, Je; Riders Mills, May.

## SCHIZOCOSA Chamberlin

*S. bilineata* Em. Stuyvesant Falls, Je; Rensselaer, May, *Schoon*; Schodack, Ap; Vrooman's Nose, May; **LI**: Sea Cliff (Bks); Harbor Hill, J1 (Bks); Long Pond, Suffolk Co, Je.

*S. crassipalpis* Em. North Cr., Je, *Plm*; Genoa, Je; Spencer, Je; McLean, Ap; Schenectady, Je.

*S. crassipes* Walck. North Cr., Je, *Plm*; Gloversville, Ap, *Alex*; Ithaca, Aug-Oct (Bks); McLean, Ap; Schenectady, Je; Albany, Je; Rensselaer, Je; **LI**: Cold Sp. Harb. (Em).

*S. saltatrix* Htz. Gloversville, Je, *Alex*; Penn Yan, May; Ithaca (Bks); McLean, May; Eggleston's Glen, Je; Vrooman's Nose, May; Kenwood, May; Thacher Pk., Je; Voorheesville, Je; Meadowdale, Ap-May; Rensselaer, Ap, *Schoon*; Schodack, Ap; Alsen, May, *Chad*; Oakland Val., May; **LI**: Sheepshead Bay, Sep.

## TRABAEA Simon

- T. aurantiaca** Em. Onondaga Co (Britcher); McLean, May-Jl; Schodack, Je; **LI**: Baiting Hollow, May; Long Pond, Suffolk Co, Je.

## FAMILY OXYOPIDAE

## OXYOPES Latreille

- O. salticus** Htz. **LI**, Je (Bks, Em).  
**O. scalaris** Htz. **LI**, Oct (Bks).

## FAMILY SALTICIDAE

## ADMESTINA Peckham

- A. tibialis** C. Koch. Ithaca (Bks); Elizabeth I.; **LI** (Bks).

## AGASSA Simon

- A. cyanea** Htz. Ithaca (Bks); **LI**, Oct (Bks).

## BALLUS C. Koch

- B. youngi** Peckham. **LI**, Aug (Bks).

## EVARCHA Simon

- E. hoyi** Peckham. Wilmington, Aug; Axton, *MacG*, *Houghton*; Cranberry L., (Barrows); Saranac L., Aug; Speculator, Jl, *Yg*; Wells, Jl, *Yg*; Sacandaga Pk., Je, *Alex*; Johnstown, Aug, *Alex*; Gloversville, Jl, *Alex*; Cranberry Cr., Sep; Barneveld, Jl, *Wolcott*; Onondaga Co (Britcher); Lake Bluff, Sep; Ithaca, Aug; Valcour I., Aug; Juanita I., Aug; Thacher Pk., Je; **LI**.

## EVOPHRYS C. Koch

- E. diminuta** Bks. **LI**: Bayville, Je (Bks).

## FUENTES Peckham

- F. lineata** C. Koch. Onondaga Co (Britcher); L. Charlotte, Je; **LI** (Bks).

## HABROCESTUM Simon

- H. parvulum** Bks. L. Keuka, Sep; Ithaca (Bks, Peckham); Coy Glen, Ithaca (Bks).  
**H. pulex** Htz. Gloversville, Aug, *Alex*; Onondaga Co (Britcher); Clyde, Ap; Crocketts, Sep; Lake Bluff, Sep; Rochester, *Franck*; Olcott, Ap, Sep; Silver Cr., Sep; Spring Brook, Sep; Richburg, Sep; Clarksburg, Sep; L. Keuka, May-Je; Ithaca, Mar, May, Aug; Caroline Center, May; Valcour I., Aug; Juanita I., Jl-Aug; L. George, Aug; Dormansville, Je; Voorheesville, Je; Poughkeepsie, *vanIngen*; **LI**, Sep (Bks).

## HYCTIA Simon

- H. bina* Htz. Long Branch (Britcher); Ithaca (Bks).  
*H. pikei* Peckham. **SI**, Nov; **LI**: Sea Cliff, J1 (Bks); Bayville (Bks).

## ICIUS Simon

- I. formicarius* Em. McLean, May; **LI**: Montauk Pt., May.  
*I. hartii* Em. Johnstown, J1, *Alex*; Sport I., Sacandaga R., Je, *Alex*; Ithaca (Bks); Columbia Co; **LI**, Aug (Bks).  
*I. similis* Bks. Paul Smiths, Je, *Babiy*; McLean, May-Je.

## MAEVIA C. Koch

- M. vittata* Htz. Onondaga Co (Britcher); Ithaca, May, Sep, Nov; **LI** (Bks).

## MARPISSA C. Koch

- M. undata* DeGeer. Onondaga Co (Britcher); Clyde, Aug; Rochester, *Franck*; Glenwood, Aug, *Leon*; L. Keuka, Sep; Ithaca, Aug-Nov; **LI**, J1 (Bks).

## METACYRBA Cambridge

- M. taeniola* Htz. NY (Peckham).

## METAPHIDIPPUS Cambridge

- M. capitatus* Htz. Axton, *MacG*, *Houghton*; Wells, May, *Yg*; Cranberry L. (Barrows); Mountain L., Je, *Alex*; Woodworth's L., May, *Alex*; Sport I., Sacandaga R., Je, *Alex*; Gloversville, May, *Alex*; Johnstown, *Alex*; Onondaga Co (Britcher); Enfield Glen, Oct; Ithaca, May, Oct; Freeville, Ap; McLean, May; Schenectady, J1; Albany, May-Je; Rensselaer, Sep, *Schoon*; Tackawasick Pond, Je; Central Nassau, J1; Juanita I., J1; Sam's Pt., May; Paradise, May; Oakland Val., May; **LI**: Sea Cliff, J1 (Bks); Sheepshead Bay, J1.  
*M. flavipedes* Peck. Wilmington, Aug; Uphill Br., Opalescent R., J1; Mt. Whiteface, Aug; Ithaca (Bks); Wells, Je, *Babiy*; Valcour I., Aug; Juanita I., J1; Tackawasick Pond, Je; Wappingers Falls, May; Paradise, May; Little Pond, Orange Co, May; Sam's Pt., May; Oakland Val., May.  
*M. flavus* Peck. Ithaca (Bks).

## MYRMARACHNE MacLeay

- M. albocinctus* C. Koch. NY (Peck, Marx, Bks); **LI** (Bks).

## NEON Simon

- N. nelli* Peck. Wilmington, Aug; Wilmington Notch, Aug; Uphill Br., Opalescent R., J1; Onondaga Co (Britcher); Lake Bluff, Sep; Olcott, Sep; Richburg, Sep; Letchworth Pk., J1; Alabama, Je; Connecticut Hill, Oct; Ithaca, Mar, May-Aug; Freeville, Aug-Sep; Labrador Pond, Je; Trenton Falls, Je; Voorheesville, Aug; Karner, Mar; Schodack, Je; Rensselaer, J1; Valcour I.,



Aug; Juanita I., J1; Little Pond, Orange Co, May; Sam's Pt., May; Maratanza L., May; Slide Mt., Je; Stamford, May, *Chrisp*; Oakland Val., May; Sterlington, May; Dunwoodie, May; **LI**: Garden City, Je, *Wlf*; Riverhead, May; Baiting Hollow, Ap; Long Pond, Suffolk Co, Je; Montauk Pt., May.

#### PARAPHIDIPPUS Cambridge

**P. marginatus** Walck. Axton, *MacG*, *Houghton*; Wilmington Notch, Aug (Em); Wilmington, Aug; Saranac L., Aug; Cranberry L. (Barrows); Barcelona, Sep; Geneva, Nov, *Glasgow*; Ithaca, Oct-Nov, *Bks*; Valcour I., Aug; Juanita I., J1; Poughkeepsie, *vanIngen*; Lagrangeville, May; Oakland Val., May; **LI**: Sea Cliff, J1 (Bks).

#### PECKHAMIA Simon

**P. picata** Htz. Onondaga Co (Britcher); Ithaca, Ap; Juanita I., Aug; **LI**, Sep (Bks).

**P. scorpionea** Htz. **LI**: J1-Aug (Bks, Peck); Cold Sp. Harb. (Em).

#### PELLENES Simon

**P. agilis** Bks. Ithaca (Bks); **LI** (Em).

**P. borealis** Bks. Mountain L., Je, *Alex*; Lake Bluff, Sep; East Bay, Sep; Ithaca (Bks).

**P. coronatus** Htz. Axton, *MacG*, *Houghton*; Ithaca (Bks); **LI** (Bks, Em).

**P. decorus** Blackw. Saranac L., Aug; Sacandaga Pk., Je, *Alex*; Onondaga Co (Britcher); Ithaca, Aug-Sep (Bks); Albany (Peck); Clarksville (Em).

**P. longimanus** Em. **LI**: Sea Cliff (Bks).

**P. peregrinus** Peck. Onondaga Co (Britcher); Ithaca, May, Sep; **LI** (Bks).

**P. roseus** Htz. Taughannock Falls, May (Em).

**P. viridipes** Htz. Vrooman's Nose, May; Wappingers Falls, May.

#### PHIDIPPUS C. Koch

**P. audax** Htz. Sacandaga Pk., Je, *Alex*; Onondaga Co (Britcher); Clyde, Ap; Lake Bluff, Sep; Rochester, May, Nov; Crosby, May; Ithaca, Aug; Albany, Dec; Greenville, Ap; Poughkeepsie, *vanIngen*; Wappingers Falls, May; Middletown, May; NYC, Sep, *Hoffman*; **LI**: Sea Cliff, Je (Bks); Gardiners I., May.

**P. brunneus** Em. Scotia, Je, *Yg*; Sacandaga Pk., Je, *Alex*; Vrooman's Nose, May; Oakland Val., May.

**P. cardinalis** Htz. Ithaca (Bks); NY (Peck).

**P. clarus** Key. Wilmington, Aug (Em); Cranberry L. (Barrows); Rochester, *Franck*; Ithaca, J1-Aug; Deruyter L., Je; Ravena; Scotia, Je, *Yg*; Schenectady, J1, *Yg*; Black Mountain Pt., Pearl Pt., Aug; **SI**, J1; **LI**: Bridgehampton, Aug.

**P. insolens** Htz. **LI** (Peck).

**P. mccoocki** Peck. Wilmington, Aug; Rochester, *Franck*; Elizabeth I., Aug.

**P. princeps** Peck. Gloversville, Ap, *Alex*.

*P. purpuratus* Key. Mt. Whiteface, Aug (Em); Speculator, Jl, *Yg*; Gloversville, Mar, *Alex*; Woodworth's L., Je, *Alex*; Onondaga Co (Britcher); Bluff Pt., Sep; Ithaca, Ap, Sep, Nov; Guilderland, May; Greenville, Ap; Vrooman's Nose, May; Poughkeepsie, *vanIngen*; Wappingers Falls, May.

*P. putnami* Peck. Ithaca (Bks).

*P. variegatus* Lucas. LI: Valley Stream, May, *Fitch*.

*P. whitmanni* Peck. Onondaga Co (Britcher); Ithaca (Bks); LI: Sea Cliff, Jl (Bks).

#### POULTONELLA Peckham

*P. alboimmaculata* Peck. NY (Bks, Peck, Marx).

#### SALTICUS Latreille

*S. albocinctus* Peck. NY (Bks, Peck).

*S. scenicus* Cl. Cranberry Cr.; Sacandaga Pk., Je, *Alex*; Gloversville, May, *Alex*; Baldwinsville (Em); Clyde, Dec; Lake Bluff, Sep; Rochester, Nov; Wilson; Ithaca, Je, Aug, Nov; Dormansville, Je; Albany, Je; Rensselaer, May-Je, *Schoon*; Nassau, Je, *Schoon*; LI: Sea Cliff, Je (Bks); Sheepshead Bay, Jl.

#### SIDUSA Peckham

*S. borealis* Bks. Ithaca (Bks).

#### SITTICUS Simon

*S. palustris* Peck. Wilmington, Aug (Em); Saranac L., Aug (Em); Cranberry L. (Barrows); L. Tear, Jl; Sacandaga Pk., Je-Jl, *Alex*; Onondaga Co (Britcher); Enfield Glen, May; Ithaca, Aug (Bks); Venice Center, May; Freeville, Aug (Bks); Poughkeepsie, *vanIngen*; LI: Mill Neck, Oct (Bks).

*S. striatus* Em. Cranberry L. (Barrows); Little Pond, Orange Co, May.

#### SYNEMOSYNA Hentz

*S. formica* Htz. Wilmington, Aug (Em); Indian Reservation, Onondaga Co (Britcher); Howland I., Nov; Penn Yan, May, Aug; Ithaca, Je, Nov; Albany, Je, *Yg*; Rensselaer, May, *Schoon*; Elizabeth I., Aug; Sterlington, May; LI: Riverhead, Ap; Long Pond, Suffolk Co, Je.

#### TALavera Peckham

*T. minuta* Bks. LI: Sea Cliff, May (Bks).

#### TUTELINA Simon

*T. elegans* Htz. Adirondacks (Em); Onondaga Co (Britcher); Ithaca (Bks); Scotia, Je, *Yg*; Albany, Je-Jl; Lagrangeville, Jl; NYC (Bks); LI, Aug (Bks).

#### WALA Keyserling

*W. mitrata* Htz. Onondaga Co (Britcher); Ithaca, Sep-Oct (Bks); LI, Jl (Bks).

*W. palmarum* Htz. Onondaga Co (Britcher); W. Barre, Sep; Ithaca, Aug (Bks); LI, Jl (Bks).

## ZYGOBALLUS Peckham

- Z. bettini** Peck. Onondaga Co (Britcher); Manlius; Ithaca, Je; Oakland Val., May; **LI**, Oct (Bks).  
**Z. nervosus** Peck. Onondaga Co (Britcher); Ithaca (Bks); **LI** (Bks).  
**Z. sexpunctatus** Htz. NY, Aug (Bks).

## ORDER OPILIONES

Compiled by C. R. CROSBY, AUGUSTA WOLF, and S. C. BISHOP

## SUBORDER PALPATORES

## FAMILY NEMASTOMATIDAE Simon

## CROSBYCUS Roewer

- C. dasyncnemus** Cros. Egleston's Glen, Sep; Freeville, Oct; **LI**: Montauk Pt., Je.

## FAMILY ISCHYROPSALIDAE Simon

## SABACON Simon

- S. cavicolens** Pack. Ithaca, Aug.

## FAMILY PHALANGIIDAE Simon

## CADDO Banks

- C. agilis** Bks. Olcott, Sep, *Dt*; Woodwardia Swamp, Aug; Covert, J1, *Bdy*; Delhi, May; **LI**: Jamaica, Je, *Wlf*; Great Pond, Riverhead, May; Montauk Pt., May.  
**C. boopis** Cros. W. Barre, Sep; Ithaca, Aug; Ballston L., Aug, *Wlf*; Voorheesville, Aug.

## MITOPUS Thorell

- M. morio** Fabr. Mt. Whiteface, Aug; Artist's Br., Je; Mt. Marcy, J1, Sep; Uphill Br., Opalescent R., J1; Mt. McIntyre, J1; Avalanche L., J1.

## ODIELLUS Roewer

- O. pictus** Wood. Mt. Whiteface, Aug; Marble Mt., Aug; Mt. McIntyre, Je-J1; Mt. Marcy, Sep; Wilmington, Aug; Wilmington Notch, Aug; Upper Jay, Sep; Saranac L., Sep, *Plm*; Plattsburg, Sep, *Plm*; Elizabethtown, Aug; Valcour L., Aug; Raquette L., Sep, *Plm*; L. Placid, Sep, *Plm*; Chapel Pond, Je-J1; Watertown, Sep, *Plm*; Brownsville, Sep, *Plm*; Pinnacle Mt., Aug; Woodworth's L., Aug, *Alex*; Big Moose, Aug; Little Falls, J1; Lake Bluff, Sep; Charlotte, Sep, *Plm*; Glen Haven, Sep, *Plm*; Lewiston, Sep, *Plm*; Silver Cr., Sep; Spring Brook, Sep; Barcelona, Sep; Olcott, Sep; Stow, Sep; Rock City, Aug-Sep; Richburg, Sep; Wellsville, Sep; Hornell, Sep; Painted Post, Sep; Hemlock L., Aug; Crosby, Sep-Oct; Watkins, Oct; Montour Falls, Sep; Covert, Aug; Interlaken, Nov; Taughannock Falls, Aug, Oct; Connecticut Hill, Aug; Enfield, Aug; McLean, J1; Kenwood, Oct; Thompson L., Je; Voorheesville, Je-J1; Pearl Pt., J1; Rensselaer, Aug; Nassau L., Sep, *Wlf*.

## PHALANGIUM Linnaeus

**P. opilio** L. Malone, Oct; Plattsburg, Sep; Norwood, Oct; Watertown, Sep, *Plm*; Evans Mills, Oct; Syracuse, Sep; Lake Bluff, Aug-Sep; East Bay, Sep; Rochester, Sep-Oct; Charlotte, Sep, *Plm*; Carlton, J1; Newfane, Oct; Lockport, Aug; Lewiston, Sep, *Plm*; Hamburg, Sep; Silver Cr., Je, Sep, *Leon*; Spring Brook, Sep; W. Barre, Sep; Holley, Oct; Hornell, Sep; Honeoye Falls, J1, Sep, Nov; Geneva, Nov; Stanley, Sep; Penn Yan, Je, Nov; Crosby, Sep; Cinnamon L., J1; Ithaca, Sep-Nov; McLean, Sep; Canastota; Trenton Falls, Je; Watervliet, Aug; Albany, Aug; Normansville, J1; Myosotis L., Albany Co, J1; Rensselaer, J1, Nov, *Schoon*; Dormansville, Je; Elizabeth I., J1; Kinderhook, Sep; **LI**: Manhasset, Je; Jamaica, Sep.

## OPILIO Herbst

**O. parietinus** DeG. Plattsburg, Sep, *Plm*; Wilmurt, Aug, *Plm*; Indian L., Aug, *Schoon*; Otto, Sep; Keuka L., Aug; Ithaca, Aug, Oct-Nov; **LI** (Bks).

## LEIOBUNUM C. Koch

**L. calcar** Wood. Wilmington Notch, J1-Aug; Chapel Pond, J1; Big Moose, Aug, *Plm*; Woodworth's L., Je, *Alex*; Letchworth Pk., J1; Factory Hollow, Ontario Co, Aug; Taughannock Falls, J1-Aug; Cinnamon L., J1; Enfield, J1, *Wlf*; Ithaca, Je-Aug; Spencer, Aug; Woodwardia Swamp, Aug; McLean, J1; Slaterville, Aug; Ringwood, J1; Deruyter L., J1; Trenton Falls, Je; Little Falls, J1; Ballston L., Aug, *Wlf*; High Mills Gorge, Aug, *Wlf*; Lawson L., Je; Black Mt., Washington Co, Aug; Hague, Aug, *Leon*.

**L. formosum** Wood. **LI**: Sea Cliff (Bks).

**L. longipes** Weed. Plattsburg, Sep, *Plm*; Uphill Br., Opalescent R., Aug; Wilmington, Aug; L. Placid, Sep, *Plm*; Chapel Pond, J1; Upper Jay, Sep, *Plm*; Saranac L., Sep, *Plm*; Woodworth's L., Aug; E. Onondaga, Sep; Cayuga, Aug; Barcelona, Sep; Silver Cr., Sep; Stow, Sep; Rock City, Sep; Richburg, Sep; Wellsville, Sep; Hornell, Sep; Montour Falls, Sep; Elmira, Aug; Enfield Center, May, *Rea*; Ithaca, Jan, Aug, Dec; Caroline, May; McLean, Apr-May; Ballston L., Aug, *Wlf*; High Mills Gorge, Aug, *Wlf*; Albany, Aug, *Leon*; Thacher Pk., May; Voorheesville, Je-J1; Thompson L., Sep; Normansville, J1; Kenwood, J1-Aug; Delmar, Aug; Watervliet, Aug; Valcour I., Aug; Hague, Sep, *Leon*; Pearl Pt., J1; Black Mt., Washington Co, Aug; Catskill, J1, *Plm*; Rhinebeck, J1; Highland, Aug, *Wlf*.

**L. nigropalpi** Wood. Wilmington, Aug; Hemlock L., Aug; Elmira, J1; Taughannock Falls, Aug; Enfield, J1, *Wlf*, *Taub*; Ithaca, J1-Aug; Naples, J1; L. Keuka, Sep; Ballston L., Aug, *Wlf*; Albany, J1; Kenwood, J1; Valcour I., Aug; **LI**: Jamaica, Je, *Wlf*.

**L. politum** Weed. Mt. Whiteface, Aug; Ausable Chasm, Sep, *Leon*; Wilmurt, Aug; Woodworth's L., Aug; Clyde, J1; Penn Yan, Aug; Naples, J1; Montour Falls, Sep; Taughannock Falls, J1-Aug; Spencer, Aug; Ithaca, J1-Sep; Woodwardia Swamp, Aug; High Mills Gorge, Aug, *Wlf*; Ballston L., Aug, *Wlf*; Albany, J1; Voorheesville, J1; Kenwood, Aug, *Plm*; Rensselaer, J1; Nassau L., Sep, *Wlf*; Watervliet Reservoir, Aug, *Leon*; Valcour I., Aug; Hague, Aug, *Leon*; Pearl Pt., J1; Black Mt., Washington Co, Aug; Rhinebeck, J1; Hunter, Aug; Van Cort. Pk., Sep, *Plm*; **LI**: Forest Hills, Sep, *Plm*; Amityville, Aug, *Plm*; Riverhead, Sep.

**L. serratipalpe** Roewer. Long L., Cold R. (Roewer).

- L. speciosum** Bks. **LI**: Sound Avenue, Suffolk Co, Aug, *Lath*; Peconic, Sep, *Lath*; Orient, Sep, *Lath*.
- L. ventricosum** Wood. Adirondack Lodge, Je-Jl; Chapel Pond, Je-Jl; Indian L., Je; Upper Jay, Sep; Johnstown, Je; Old Forge, Jl; Clyde, Jl; Howland I., Nov; Otto, Jan, Aug, *Comstock*; Rock City, Je; Portage, Je; Letchworth Pk., Jl; Oak Orchard Swamp, Je; L. Keuka, Je; Cinnamon L., Je; Taughannock Falls, Jl-Aug, *Comstock*; Enfield, Jl, *Wlf*; Ithaca, May, Jl-Sep; McLean, Jl; Slaterville, Aug; W. Winfield, Je; Thacher Pk., May; Voorheesville, Je-Jl; Normansville, Nov; Kenwood, May, Jl, *Plm*; Karner, Mar, Aug; Rensselaer, May, *Plm*; E. Greenbush, Je; Central Nassau, Jl; Schodack Landing, Je; Red Hook, Je; Sleeping Beauty Mt., Jl; Queechey L., May, *Schoon*; Riders Mills, May, *Chrisp*; Hunter, Je, *Plm*; Hunter Mt., Je, *Plm*; Goshen, May; Big Indian, Je; Tompkins Corners, Jl, *Wlf*; Moshulu; **LI**: Cold Sp. Harb., Jl, *Plm*; Riverhead, Sep; Sanford Club, Je; Gardiners I., May.
- L. verrucosum** Wood. Rensselaer, Aug, *Schoon*; Orangeburg, Je, *Giles von Krockow*; **SI**: Watchogue, Jl, *Barnes*; **LI**: Ronkonkoma, Sep; Yaphank, Jl, *von Krockow*; Riverhead, Aug.
- L. vittatum** Say. Ausable Chasm, Sep, *Leon*; Wilmington, Aug; Upper Jay, Sep; Johnstown, Aug, *Alex*; Gloversville, Ap, *Alex*; Sacandaga Pk., Aug; Woodworth's L., Aug; Mountain L., Sep; Brownsville, Sep, *Plm*; E. Onondaga, Sep, *Plm*; Lake Bluff, Sep; Clyde, Jl-Aug; Charlotte, Sep, *Plm*; Glen Haven, Sep, *Plm*; L. Erie Beach, Chautauqua Co, Je; Silver Cr., Sep; Richburg, Sep; Wellsville, Sep; Hornell, Sep; Hemlock L., Aug; Naples, Jl-Aug; Montour Falls, Sep; Enfield, Jl, *Taub*; Ithaca, Jl, Aug-Sep; High Mills Gorge, Aug, *Wlf*; Ballston L., Aug, *Wlf*; Albany, Jl-Aug; Voorheesville, Jl, *Leon*; Normansville, Jl; Plattsburg, Sep; Valcour I., Aug; Pearl Pt., Jl; Shelving Rock Mt., Jl; Spruce Mt., Sep, *Leon*; Elizabeth I., Jl; Juanita I., Jl; Hague, Aug-Sep, *Leon*; Watervliet Reservoir, Aug, *Leon*; Nassau L., Sep, *Wlf*; Rensselaer, Aug, *Plm*; Kinderhook L., Aug, *Schoon*; Saugerties, Aug; Turner, Aug; Kingston, Sep; Highland, Aug, *Wlf*; Fishkill, Sep, *Plm*; Craryville, Aug, *Wlf*; Middletown, Aug; Hunter, Aug; Van Cort. Pk., Sep, *Plm*; **LI**: North Beach, Queens Co, Jl; Forest Hills, Sep, *Plm*; Amityville, Aug, *Plm*; Riverhead, Sep.

#### HADROBUNUS Banks

- H. grandis** Say. Otto, Aug; Taughannock Falls, Jl; Cinnamon L., Je; Covert, Aug; Enfield, Jl, *Taub*; Ithaca, May-Sep; Slaterville, Aug; Cranberry Cr., Aug; Voorheesville, Jl; Ancram, Je; L. Charlotte, Je; Saugerties, Aug; Poughkeepsie, *vanIngen*; **LI**: Long Pond, Suffolk Co, Je; Shinnecock Hills, Je.

### ORDER ACARINA

#### FAMILY ERIOPHYIDAE <sup>186</sup>

Compiled by H. E. HODGKISS

The Eriophyidae, or gall mites, are widespread as regards distribution within New York. Although this has been recognized for some years and attempts have been made to classify the species, there is very little

<sup>186</sup> Of the eriophyid galls occurring within New York State, there are many the identity of whose causal agents has not been disclosed through the medium of published references to the species. Such galls have been found on the following genera of plants: *Artemisia*, *Betula*, *Bromus*, *Celtis*, *Crataegus*, *Fagus*, *Nyssa*, *Sambucus*, *Sorbus*, *Verbena*, *Viburnum*, and *Vitis*. It is not improbable that many of the mites, when identified, will prove to be of European origin, although in this mass of material there must be a wealth of undescribed forms.



information as to the mites which cause the various gall formations. There are also a number of free-living forms, which apparently do not make galls but are associated with the gall-forming individuals.

Chadwick's list (1908) is a very important contribution to the knowledge of the mite galls, but it is probable that many of these structures were described originally from material collected at different periods of development and are the work of the same species of mite.

Some species, as the mites attacking apple, pear, maple, elm, linden, beech, willow, and the wild and cultivated stone fruits, are found wherever these plants are growing. In most instances serious damage is caused by the deforming of the leaves, or by the dropping of leaves and deforming of fruits.

The apple and pear mites are a menace in orchards of these fruits. *Eriophyes phloeocoptes* is of only local importance, but wherever it occurs it deforms the fruit spurs. *Phyllocoptes cornutus* is responsible for "silver leaf" on peach, plum, and apricot. The species was very abundant during one season at Geneva, but no serious harm to trees or fruit was noted.

#### SUBFAMILY ERIOPHYINAE

##### ERIOPHYES Siebold

- E. abnormis* Garm. Geneva. On *Tilia americana*.
- E. avellanae* Nal. Nassau; Albany. On *Corylus americana*.
- E. brevitarisus* Fock. "NY" (?), reference in Chadwick (N. Y. State Mus., Bul. 12, p. 124, 1907). On *Alnus glutinosa*.
- E. caulus* Cook. Irving. On *Juglans nigra*.
- E. confusus* Hodg. Geneva. On *Acer saccharinum*.
- E. elongatus* Hodg. Geneva. On *Acer saccharum*.
- E. fraxiniflora* Felt. Albany; LI: Brooklyn. On *Fraxinus americana*.
- E. fraxini* Garm. Geneva; Poughkeepsie; NYC. On *Fraxinus americana*.
- E. malifoliae* Parr. Geneva. On *Pyrus malus*.
- E. maculatus* Hodg. Geneva. On *Acer saccharum*.
- E. marginatus* Conn. Albany. On *Salix alba*.
- E. major* Hodg. Geneva. On *Acer rubrum*.
- E. modestus* Hodg. Bug L., Adirondacks. On *Acer saccharum*.
- E. negundi* Hodg. Geneva. On *Acer negundo*.
- E. ornatus* Hodg. Geneva. On *Acer rubrum*.
- E. padi* var. Nal. Blackhead Mt., Catskills; Poughkeepsie. On *Prunus serotina*.
- E. parallelus* Hodg. Seventh L., Adirondacks. On *Acer spicatum*.
- E. phloeocoptes* Nal. Hudson Val. On *Prunus domestica*.
- E. populi* Nal. Lebanon Sps. On *Populus tremuloides*.
- E. pruni* Schoene. Geneva. On *Prunus americana*.
- E. pruni-crumena* Walsh. Geneva. On *Prunus americana*.

- E. piri** Pagnst. PEAR LEAF BLISTER MITE. Generally distributed through the State, and often injurious to apple and pear.
- E. piri** var. **variolata** Nal. Geneva. On *Pyrus malus*.
- E. quadrisetus juniperinus** Nal. Ithaca. On juniper berries.
- E. quadrisetus typicus** F. Thom. Ithaca. On juniper berries.
- E. querci** Gar. NY. On *Quercus macrocarpa*.
- E. regulus** Hodg. Geneva; Phelps. On *Acer saccharum*.
- E. rhois** Stebbins. "NY". On *Rhus toxicodendron*.
- E. ryderi** Bks. "NY". On *Acer saccharum*.
- E. salicicola** Gar. Irving. On *Salix amygdaloides*.
- E. semen** Walsh. "NY". On *Salix nigra*.
- E. serotinae** Beut. Blackhead Mt., Catskills; Poughkeepsie. On *Prunus serotina*.
- E. thujae** Gar. "NY" (Felt). On *Thuja occidentalis*.
- E. ulmi** Gar. Geneva; Catskill. On *Ulmus americana*.

## SUBFAMILY PHYLLOCOPTINAE

## ANTHOCOPTES Nalepa

- A. transitionalis** Hodg. Geneva. On *Acer rubrum*.

## EPITRIMERUS Nalepa

- E. piri** Nal. Geneva. On *Pyrus communis*.

## OXYPLEURITES Nalepa

- O. dentatus** Hodg. Geneva. On *Acer platanoides*.
- O. dentilobus** Hodg. Geneva. On *Acer saccharum*.
- O. serratus** Nal. Geneva. On *Acer platanoides*.

## PHYLLOCOPTES Nalepa

- P. aceris-crumena** Rly. Phelps; Geneva; Seneca Castle. On *Acer saccharum* and *A. saccharinum*.
- P. brevisetosus** Hodg. Geneva. On *Acer negundo*.
- P. constrictus** Hodg. Geneva. On *Acer saccharum*.
- P. cornutus** Bks. Geneva. On *Prunus persica*.
- P. gymnaspiis** Nal. Geneva. On *Acer platanoides*.
- P. magnificus** Hodg. Geneva. On *Acer platanoides*.
- P. minutissimus** Hodg. Geneva. On *Acer rubrum*.
- P. quadripes** Shim. "NY". On *Acer saccharinum*.
- P. quinquilobus** Hodg. Geneva. On *Acer rubrum*.
- P. schlechtendali** Nal. "NY". On *Pyrus malus* and *P. communis*.
- P. splendidus** Hodg. Geneva. On *Acer negundo*.
- P. trilobis** Hodg. Geneva. On *Acer platanoides*.
- P. variabilis** Hodg. Geneva. On *Acer saccharum*.

## CLASS DIPLOPODA

Compiled by JOHN W. BAILEY

## ORDER CHILOGNATHA

## FAMILY ISOBATIDAE

## BLANIULUS Gervais

**B. guttatus** (Bosc). NYC, Je, 1917.

## NOPOIULUS Menge

**N. minutus** (Brandt). Freeville, Oct, Ithaca, Ap, *Bail*; West Farms, Sep; Bronx Pk., Sep (Plm).

## FAMILY JULIDAE

## BRACHYIULUS Berlese

**B. pusillus** (Leach) (*virgatus* [Wood]). Forbes Manor, Ap (Plm); Vischer Ferry, May.

## DIPLOIULUS Berlese

**D. londinensis coeruleocinctus** (Wood) (*Julus hortensis* Wood). Lyons Falls, Jl; Linlithgo, Je, Oneida, Je, Brownville, Sep (Plm); Buffalo, Ap, *Warren*; Ellington, Oct; Jamestown, Ap, *Rumple*; Montour Falls, Oct, *Cy*; Stockton, May; Albany; Rensselaer; Ithaca, May, Jl, Nov, *Bail*; Danby, Oct, *Cy*; McLean, May, *Babiy*; Caroline, Ap, *Diven*; Freeville, Oct, Schenectady, Oct (Plm); Scarsdale, Oct, *Larth*; Delmar, Ap, *Yg*; Fishkill, Sep (Plm); **LI**: Valley Stream, Mar, *Weston*.**D. luscus** (Mein.). West Farms, Sep.

## OPHYIULUS Berlese

**O. pilosus** (Newport). Ithaca, Mar, *Bail*; Rensselaer, Fishkill, Van Cort. Pk., Washington Pk., Bronx Pk.; **SI**: Castleton; **LI**: Cold Sp. Harb., Mar-Sep; (all Plm).

## FAMILY PARAJULIDAE

## PARAJULUS Humbert and Saussure

**P. canadensis** (Newport). Upper Jay, L. George, Old Forge, Saranac L., Crown Pt., North Cr., Paul Smiths, Lewiston, Wilmurt, Copeland, E. Onondaga, Chautauqua L., Big Moose, Raquette L., Brownville, L. Placid, Plattsburg, Chateaugay L., Hunter Mt., Watertown, Glen Haven, Thompson L., Kenwood, Rensselaer, Pine Hills, May-Sep (all Plm); McLean, *Cy*, *Sib*; Ithaca, Freeville, Crown Hill, Oct, *Bail*.**P. immaculatus** (Wood). Mt. Marble, Mt. Whiteface, Wilmington, Aug, *Bail*; Kenwood, Oct (Plm).**P. impressus** (Say). Upper Jay, Crown Pt., Brownville, Plattsburg, Lewiston, E. Onondaga, Charlotte, Glen Haven, Schenectady, Kenwood, Albany, Poughkeepsie, Fishkill, Linlithgo, May-Oct (all Plm).**P. pennsylvanicus** (Brandt). Ithaca, *Dt*; McLean, Queechy L., E. Onondaga, Glen Haven, Kenwood, Bronx Pk., Van Cort. Pk.; **SI**: Arrochar, Castleton, May-Oct; (all Plm).

## FAMILY SPIROBOLIDAE

## SPIROBOLUS Karsch

- S. marginatus** (Say). Chilson L., Sep; Indian Ladder, Je, Crown Pt., Sep, Plattsburg, Sep, Port Douglas, Aug (Plm); Gloversville, Ap, *Alex*; E. Onondaga, Sep (Plm); Ithaca, May, Jl, *Bail*, *Dt*, *Bizzell*; Cortland, Jl, McLean Bogs, Taughannock, Freeville (Dt); L. George, Aug; Peekskill, Fishkill, Je, Sep (Plm).

## FAMILY XYSTODESMIDAE

## FONTARIA Gray

- F. corrugatus** (Wood). Upper Jay, Sep, E. Onondaga, Sep, and Howe Cave, Je (Plm); Ithaca, May, Jl, *Dt*; McLean, May; Enfield Gorge, Slaterville, May (Bizzell); Coy Glen, Mar; Aqueduct, Je, Peekskill, Je (Plm).
- F. trimaculata** (Wood). North Cr., Lewiston, Indian Ladder, May-Sep (Plm); Coy Glen, Jl, *Dt*; Gloversville, May, Aug, *Alex*; Saratoga, Je, *Whitlock*.

## FAMILY STRONGYLOSOMIDAE

## ORTHOMORPHA Bollman

- O. gracilis** (Koch). Ithaca, May, Jl, *Schenik*; McLean Bogs, Aug, *Sib*; Albany, Mar, *Brown*.

## FAMILY POLYDESMIDAE

## POLYDESMUS Latreille

- P. canadensis** (Newport). Wilmington, Aug, *Bail*; Wilmurt, May (Plm).
- P. granulatus** Say. Bronx Pk., Sep (Plm).
- P. moniliaris** (Koch). West Farms, Ap, Oct, *Cy*.
- P. serratus** (Say). Big Moose, North Cr., Paul Smiths, Jl-Aug (Plm); Mt. Marion, Ulster Co, Oct, *Chadwick*; Wilmurt, E. Onondaga, Aug-Sep (Plm); Warner, Jl, *Wlf*; Gloversville, Sep, *Alex*; Chautauqua L., Sep (Plm); Connecticut Hill, Ithaca, Freeville, Oct, *Bail*; L. George, Hunter Mt., Catskill, Kenwood, Van Cort. Pk. (Plm); **LI**: Cold Sp. Harb., Amityville, Je-Sep (Plm).
- P. testi** (Bollman). Rouses Pt., Crown Pt., Plattsburg, Old Forge, North Cr., Forbes Manor, Lewiston, Charlotte, Rensselaer, Hunter, Van Cort. Pk. (Plm); **LI**: Amityville, Mar-Nov (Plm).

## SCYTONOTUS Koch

- S. nodulosus** (Koch). E. Onondaga, Glen Haven, Cayuga (Plm); **LI**: Cold Sp. Harb., Jl-Oct (Plm).
- S. granulatus** (Say). Plattsburg, Kenwood, Aug, Sep (Plm).

## FAMILY CRASPEDOSOMIDAE

## TRICHOPETALUM Harger

- T. album** (Cook). Glen Haven, Sep (Plm).
- T. sp.** Hunter, Hunter Mt., Je (Plm).

## CLEIDOGONA Cook and Collins

**C. caesioannulata** (Wood). Danby, Oct, *Cy&Chap*.

## FAMILY POLYZONIIDAE

## POLYZONIUM Brandt

**P. rosalbum** (Cope). Crown Pt., E. Onondaga, Sep (Plm); Danby, McLean, Ap, Oct, *Cy&Chap*; Connecticut Hill, Oct, *Bail*.

## FAMILY LYSIOPETALIDAE

## CALLIPUS Risso

**C. lactarius** (Say). Ithaca, May, Jl, *Bail*; Taughannock, Aug; Coy Glen, Jl, *Dt*.

## FAMILY POLYXENIDAE

## POLYXENUS Latreille

**P. fasciculatus** (Say). Ithaca, Mar-Apr, *Bail*, *Babi*; Valley Cr. Swamp and Voorheesville, Aug, *Bish*; Greenville, Ap.

## CLASS CHILOPODA

Compiled by JOHN W. BAILEY

## ORDER SCHIZOTARSIA

## FAMILY SCUTIGERIDAE

## SCUTIGERA Lamarck

**S. forceps** Raf. THE HOUSE CENTIPEDE. Ithaca, May, *Bail*; Albany, Feb, Oct (NYS).

## ORDER ANAMORPHA

## SUBORDER LITHOBIOMORPHA

## FAMILY ETHOPOLIDAE

## BOTHROPOLYS Wood

**B. multidentatus** (Newport). Wilmington, Aug, *Bail*; Upper Jay; Old Forge; Crown Pt.; Indian Head; L. Placid; Raquette L.; Big Moose; Saranac L.; Forbes Manor; North Cr.; Hunter Mt.; Wilmurt; Thousand Isls.; E. Onondaga; Glen Haven; Chautauqua L.; Penn Yan; Ithaca; Caroline; Albany; Karner; Rensselaer; Kenwood; Linlithgo; Fishkill; **SI**: Castleton; **LI**: Cold Sp.

## FAMILY LITHOBIIDAE

## LITHOBIUS Leach

**L. forficatus** (L.). Rouses Pt.; Saranac L., Aug, *Bail*; Upper Jay; Charlotte; Plattsburg; Crown Pt.; Raquette L.; Lewiston; Forbes Manor; Fishkill; Marion; Old Forge; Gloversville; Syracuse; Niagara; Penn Yan; Hornell;



Howe Cave; Ithaca, May; Glen Haven; Caroline; L. George; Albany; Kenwood; Altamont; Rensselaer; Cedar Hill; Hunter; Pine Hill; Waterford; Bronx Pk.; Van Cort. Pk.; **SI**: Arrochar; Silver L.; **LI**: Bay Shore; Amityville; Oyster Bay; Cold Sp. Harb.

#### NADABIUS Chamberlin

**N. aristeus** (Chamb.). Montour Falls; Ithaca; Freeville, Oct, *Bail*; **LI**: Baiting Hollow.

#### NAMPABIUS Chamberlin

**N. lundii** Mein. Upper Jay; Wilmurt, Aug, *Plm*; Forbes Manor; Chautauqua L.; NYC (Lund).

**N. fungiferopes** (Chamb.). Very common throughout the State. Montour Falls, Oct, *Cy*; Ithaca, Dec, Chamb; McLean Bogs; Hunter Mt., Je, *Plm*.

#### SONIBIUS Chamberlin

**S. parvus** (Chamb.). Big Tupper L. (Thomas, FKBarbour).

**S. numius** (Chamb.). Forbes Manor, May, *Plm*.

#### SOZIBIUS Chamberlin

**S. providens** (Bollman). **SI**: Castleton, Sep, *Plm*.

#### PAITOBIOUS Chamberlin

**P. exiguus** (Mein.). NYC, *Lund*.

### FAMILY HENICOPIDAE

#### ZYGETHOBIUS Chamberlin

**Z. sp.** McLean Bogs, Ap, *Cy*.

## ORDER EPIMORPHA

### SUBORDER SCOLOPENDROMORPHA

#### FAMILY CRYPTOPIDAE

##### CRYPTOPS Leach

**C. hyalinus** (Say). Rensselaer, Sep, *Plm*; Bronx Pk.; **SI**: Castleton; **LI**: Cold Sp. Harb.

##### OTOCRYPTOPS Haase

**O. sexspinosus** (Say). Syracuse; E. Onondaga; Ithaca, May, *Bail*; Thompson L.; Caroline; Freeville; Glen Haven; Rensselaer; Hunter Mt.; Fishkill; Bronx Pk.; **SI**: Castleton; Arrochar; **LI**: Cold Sp. Harb.

SUBORDER **GEOPHILOMORPHA**

FAMILY **GEOPHILIDAE**

**GEOPHILUS** Leach

- G. deducens** (Chamb.). **LI**: Sea Cliff, *Bks.*  
**G. rubens** (Say). Forbes Manor; Wilmurt; Gloversville; Caroline; Ithaca, May, *Bail*; Kenwood; Rensselaer; Altamont; Fishkill; Bronx Pk.; **LI**: Bay Shore.  
**G. mordax** (Mein.). **LI**, *Chamb.*

**ARENOPHILUS** Chamberlin

- A. bipuncticeps** (Wood). NYC, Oct; **LI**: Oyster Bay, Ap, *Barlow*, May, *Plm.*

**PACHYMERIUM** Koch

- P. ferrugineum** (Koch). E. Greenbush, Je, *Plm.*

FAMILY **LINOTAENIIDAE**

**LINOTAENIA** Koch

- L. fulva** (Sager). Forbes Manor; Syracuse; Montour Falls; Ithaca, Jl, *Bail*; Freeville; McLean Bogs; Danby; Hunter Mt.; Kenwood; Rensselaer; Fishkill; Bronx Pk.; Van Cort. Pk.; **SI**: Silver L.  
**L. chionophila** (Wood). Rouses Pt.; Saranac L.; Raquette L.; Grass L.; Connecticut Hill, Oct, *Bail*; McLean Bogs; Ithaca; Schenectady; Kenwood; Van Cort. Pk., Port Washington Pk., Bronx Pk.; **SI**: Arrochar.

FAMILY **SCHENDYLIDAE**

**ESCARYUS** Cook and Collins

- E. liber** (C.&C.). Kirkville, Ap, *C&C.*  
**E. urbicus** (Mein.). Syracuse, Jan, *C&C*; Ithaca, Dec-Mar.

**SCHENDYLA** Bergsve and Meinert

- S. nemorensis** (Koch). Clyde, Dec; Hunter Mt.; Ithaca; Kenwood; **SI**; **LI**: Baiting Hollow.

CLASS **MYRIENTOMATA**

ORDER **PROTURA**

FAMILY **EOSENTOMIDAE**

**EOSENTOMON** Berlese

- E. wheeleri** Silvestri. Collected by Silvestri in NY, probably in the vicinity of NYC.

## LIST OF ORDERS, AND NUMBER OF FAMILIES, GENERA, AND SPECIES RECORDED

Class	Order	Families	Genera	Species and varieties
Insecta	Thysanura	3	5	7
	Collembola	3	22	71
	Orthoptera	7	62	136
	Isoptera	1	1	1
	Neuroptera	11	25	61
	Ephemera	1	24	61
	Odonata	3	49	159
	Plecoptera	4	19	59
	Corrodentia	9	18	36
	Mallophaga	4	17	53
	Thysanoptera	4	38	77
	Anoplura	2	8	11
	Hemiptera	32	264	727
	Homoptera	10	219	864
	Dermaptera	1	4	4
	Coleoptera	88	1,356	4,546
	Strepsiptera	1	1	2
	Mecoptera	1	4	20
	Trichoptera	13	68	174
	Lepidoptera	59	800	2,439
	Diptera	71	909	3,615
	Siphonaptera	1	11	26
	Hymenoptera	58	649	2,300
Arachnida	Araneae	19	176	553
	Opiliones	3	9	19
	Acarina (Eriophyidae)	1	5	52
Diplopoda	Chilognatha	11	16	27
Chilopoda	Schizotarsia	1	1	1
	Anamorpha	3	8	10
Myrientomata	Epimorpha	4	8	12
	Protura	1	1	1
Grand total		430	4,797	16,124

LIST OF THE MORE IMPORTANT COLLECTING STATIONS NOT IN  
THE UNITED STATES OFFICIAL POSTAL GUIDE

- Adirondack Lodge, Essex Co.  
 Allegany Park, Cattaraugus Co.  
 Alps, Rensselaer Co.  
 Annadale, Richmond Co.  
 Aqueduct, Queens Co.  
 Arlington, Richmond Co.  
 Arrochar, Richmond Co.  
 Artist's Brook, Essex Co.  
 Auger Pond, Essex Co.  
 Ausable Lakes, Essex Co.  
 Avalanche Lake, Essex Co.  
 Axton, Franklin Co.  
 Baiting Hollow, Suffolk Co.  
 Bay Ridge, Kings Co.  
 Bear Mountain, Rockland Co.  
 Belden Hill, Broome Co.  
 Bergen Beach, Kings Co.  
 Black Brook, Clinton Co.  
 Black Mountain, Washington Co.  
 Bleecker, Fulton Co.  
 Brant Lake, Warren Co.  
 Brighton Beach, Kings Co.  
 Bronx Park, Bronx Co.  
 Bryn Mawr Park, Westchester Co.  
 Bumps Pond, Washington Co.  
 Burden Lake, Rensselaer Co.  
 Canada Lake, Fulton Co.  
 Canarsie, Kings Co.  
 Cascade Lakes, Essex Co.  
 Cedar Hill, Albany Co.  
 Center, old name for Karner  
 Center Island, Nassau Co.  
 Central Nassau, Rensselaer Co.  
 Chapel Pond, Essex Co.  
 Charley Lake, Hamilton Co.  
 Cheektowaga, Erie Co.  
 Cicero Swamp, Onondaga Co.  
 Cinnamon Lake, Schuyler Co.  
 Clinton Heights, Rensselaer Co.  
 Clove Valley, Richmond Co.  
 Conesus Lake, Livingston Co.  
 Connecticut Hill, Tompkins Co.  
 Cossayuna Lake, Washington Co.  
 Coy Glen, Tompkins Co.  
 Crater Club, Essex Co.  
 Crocketts, Cayuga Co.  
 Crosby, Yates Co.  
 Crusoe Lake, Wayne Co.  
 Crystal Lake, Albany Co.  
 Cypress Hills, Kings Co.  
 Danby, Tompkins Co.  
 Deep Pond, Wading River, Suffolk Co.  
 Deruyter Lake, Madison Co.  
 Dryden Lake, Tompkins Co.  
 Dunwoodie, Westchester Co.  
 East Caroga Lake, Fulton Co.  
 Eggleston's Glen, Yates Co.  
 Elizabeth Island, Lake George, Warren Co.  
 Elm Lake, eastern border of township of  
     Lake Pleasant, Hamilton Co.  
 Enfield Glen, Tompkins Co.  
 Fall Creek, Tompkins Co.  
 Fentons, Lewis Co.  
 Fire Island, Suffolk Co.  
 Forest Park, Queens Co.  
 Fort Wadsworth, Richmond Co.  
 Fourth Lake, Fulton Chain, Herkimer  
     and Hamilton Cos.  
 Gardiners Island, Suffolk Co.  
 Gilman Lake, Hamilton Co.  
 Guyanoga, Yates Co.  
 Half Way Hollow Hills, Suffolk Co.  
 Hebron, Washington Co.  
 Hemlock Lake, Livingston Co.  
 High Falls, Essex Co.  
 Hillside Park, Johnstown, Fulton Co.  
 Howland Island, Cayuga Co.  
 Hunter Mt., Greene Co.  
 Indian Castle, Herkimer Co.  
 Italy Hill, Yates Co.  
 Jabe Pond, Warren Co.  
 Juanita Island, Lake George, Warren Co.  
 Karner, formerly Center, Albany Co.  
 Kenwood, Albany Co.  
 Kissena Park, Queens Co.  
 Kreischerville, Richmond Co.  
 Labrador Pond, Onondaga and Cortland  
     Cos.  
 Lake Charlotte, Columbia Co.  
 Lake Keuka, Yates Co.  
 Lake Mahopac, Putnam Co.  
 Lake Minnewaska, Ulster Co.  
 Lakeside Park, Orleans Co.  
 Lake Tear on Mt. Marcy, Essex Co.  
 Lawson Lake, Albany Co.  
 Letchworth Park, Wyoming Co.  
 Little Neck, Queens Co.  
 Long Branch, Onondaga Co.  
 Long Pond, Wading River, Suffolk Co.  
 Loucks Pond, Steuben Co.  
 Lowerre, Westchester Co.  
 Ludlow, Ulster Co.

- Madison Barracks, Jefferson Co.  
 Manhattan Beach, Junction, Kings Co.  
 Maratanza Lake, Ulster Co.  
 Melville, Suffolk Co.  
 Menands, Albany Co.  
 Michigan Hollow Swamp, Tompkins Co.  
 Mill Creek, Rensselaer Co.  
 Monterey, Schuyler Co.  
 Mooers Junction, Clinton Co.  
 Mosholu, Van Cortlandt Park, Bronx Co.  
 Moss Pond, Essex Co.  
 Mountain Lake, Fulton Co.  
 Mt. Buell, Fulton Co.  
 Mt. Colden, Essex Co.  
 Mt. Dix, Essex Co.  
 Mt. Haystack, Essex Co.  
 Mt. Hopkins, Essex Co.  
 Mt. McIntyre, Essex Co.  
 Mt. Marcy, Essex Co.  
 Mt. Redfield, Essex Co.  
 Mt. Seward, Franklin Co.  
 Mt. Skylight, Essex Co.  
 Mt. Utsayantha, Delaware Co.  
 Mt. Whiteface, Essex Co.  
 Mud Creek Valley, Cattaraugus Co.  
 Mud Hollow Pond, Albany Co.  
 Murray Bay, Essex Co.  
 Nepperhan, Westchester Co.  
 New Brighton, Richmond Co.  
 New Salem, Albany Co.  
 Newtown, Queens Co.  
 Nine-corner Lake, Fulton Co.  
 Nissequogue, Suffolk Co.  
 Normanskill, Albany Co.  
 Normansville, Albany Co.  
 North Beach, Queens Co.  
 North Lansing, Tompkins Co.  
 Norton, Tompkins Co.  
 Norton's Landing, Tompkins Co.; now known as Portland Point.  
 Oak Orchard, Swamp and Creek, Orleans Co.  
 Oak Orchard Swamps, near Batavia, Genesee and Orleans Cos.  
 Oak Ridge, Canandaigua Lake, Yates Co.  
 Oakwood, Richmond Co.  
 Old Place, Richmond Co.  
 Onteora Mt., Greene Co.  
 Orient Point, Suffolk Co.  
 Paradise, Orange Co.  
 Parkers, Chautauqua Co.  
 Parkers, Lewis Co.  
 Parkville, Kings Co.  
 Pearl Point, L. George, Washington Co.  
 Pennequid Barrens, Suffolk Co.  
 Penny Bridge, Queens Co.  
 Pike Pond, Rensselaer Co.  
 Pinekill, Sullivan Co.  
 Pinnacle Mountain, Fulton Co.  
 Pittstown, Rensselaer Co.  
 Point Breeze, Orleans Co.  
 Portage, Livingston Co.  
 Potter Swamp, Yates Co.  
 Promised Land, Suffolk Co.  
 Queechy Lake, Rensselaer Co.  
 Ravenswood, Queens Co.  
 Ringwood, Tompkins Co.  
 Riverdale, New York City.  
 Rock City, Cattaraugus Co.  
 Rosedale, Queens Co.  
 Rye Beach, Westchester Co.  
 Rye Point, Keuka Lake, Steuben Co.  
 Sam's Point, Ulster Co.  
 Sancy Brook, Richmond Co.  
 Sands Point, Nassau Co.  
 Sandy Hill, old name for Hudson Falls, Washington Co.  
 Saranac Inn, Franklin Co.  
 Scotchtown, Orange Co.  
 Second Milo, Yates Co.  
 Shakers, Albany Co.  
 Shelving Rock, Washington Co.  
 Shelving Rock Mountain, Washington Co.  
 Shurgers Gorge, Tompkins Co.  
 Silver Lake, Richmond Co.  
 Six Mile Creek, Tompkins Co.  
 Slaterville, Tompkins Co.  
 Sleeping Beauty Mt., Washington Co.  
 Slide Mt., Ulster Co.  
 Somerset, Niagara Co.  
 Southwest Oswego, Oswego Co.  
 Spafford, Onondaga Co.  
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 Streetroad, Essex Co.  
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 Tarbel, Tompkins Co.  
 Taughannock Falls, Tompkins Co.  
 Thacher Park, Albany Co.  
 The Vlei, Fulton Co.  
 Thompson Lake, Albany Co.  
 Turkey Hill, Tompkins Co.  
 Unionport, New York Co.



- Uphill Brook and Opalescent River, Essex Co.  
Valcour Island, Clinton Co.  
Van Cortlandt Park, Bronx Co.  
Vandalia, Cattaraugus Co.  
Vandenburgs Pond, Fulton Co.  
Vermillion, Oswego Co.  
Vienna, Oneida Co.  
Vrooman's Nose, Schoharie Co.  
Waldorf, Albany Co.  
Watchogue, Richmond Co.  
Waterloo, Orange Co.  
Wawbeek, Franklin Co.  
West Hills, Suffolk Co.  
Westview, Livingston Co.  
White Church, Tompkins Co.  
White House, Cattaraugus Co.  
White Lake, Onondaga Co.  
Willeys Point, Queens Co.  
Wilmington Notch, Essex Co.  
Wilmurt, Herkimer Co.  
Windom, Erie Co.  
Winfield, Queens Co.  
Woodwardia Swamp, near Freeville, Tompkins Co.  
Woodworth's Lake, Fulton Co.

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